

Peirce Edition Project

Writings of Charles S. Peirce
A Chronological Edition

COMBINED INDEX: Volumes 1 to 6, and 8

This comprehensive index combines the entries of the seven volumes of the *Writings of Charles S. Peirce* so far published by the Peirce Edition Project. Main entries have been made to a large extent uniform throughout (especially regarding the spelling of proper names, which sometimes varies in distinct volume indexes). The depth of indexing varies from volume to volume according to the methods of analysis and syntax habits of different indexers. No attempt has been made to improve this state of things, so that there are inevitable inconsistencies. The Peirce Project thanks Eric Herod and Mark Fendry for their assistance in scanning the indexes, cleaning up the result, and combining the indexes. Index combination and layout was done using **LiveIndexer 2.0**, a versatile and powerful back-of-the-book indexing software created by André De Tienne, Peirce Project Director and General Editor, initially for indexing the volumes of the edition. **LiveIndexer 2.0** can be purchased from the Peirce Edition Project (Mac or Windows), *all sales proceeds going to the Project*. **Contact LiveIndexer (livindex@iupui.edu) for complete information.**

The index is sorted alphabetically by first meaningful word according to the *Chicago Manual of Style's* rules (16th ed.) for letter-by-letter sorting. Page numbers are sorted numerically by volume, and boldfaced volume numbers precede the first instance of their respective volume page numbers. The index of each volume initially covered the introduction and all Peirce texts. The indexes in W6 and W8 extended their coverage to sections of the textual apparatus, W8's index being the most comprehensive in that regard.

* * * * *

A

- Aagard, Christian, **4.435**, 589
- Abbe, Cleveland ("Old Probabilities"), **8.252**, 440
- Abbot, Francis Ellingwood, **1.156**, 455, **2.110**, **3.xxx**, xxxii, **5.xlv**, 451, **6.xxvii**, xxviii.4, 438, **8.xxxiii**, lv, lvn.53, lvin.56, lixn.63, lxxxi, 42, 373
- his definition of space, **5.255**
- his dispute with Royce, **8.lv–lix**, 245–47, 433–38, 627–29
- his dualism, **5.286–87**
- his noumenism, **5.288**
- Peirce's opinion of, **8.lv**, 434–36
- his scientific theism, **5.xi**, 280
- his theory of relations, **5.xli**, 279–80, 287–88
- Scientific Theism*, **5.xxxvi**, xxxvii, xl–xli, xlvii, 279, 280, 285
- "The Philosophy of Space and Time," **1.242**
- Abbott, Thomas Kingsmill, **5.258**, 451
- Kant's Introduction to Logic* (item 40), **5.xxxvi**, xlvi
- Abbreviation
- benefit of, **8.63**, 70–71
- ABC-separation, **8.222**, 224, 226, 227, 424
- Abduction, **1.xxxiii**, **2.108**, **4.588**
- abductive induction, **4.588**
- performed by Nature, **4.lxx**
- Abeille, Gaspar, **4.435**, 589
- Abel, **6.177**
- Abel, Niels Henrik, **5.26**, 37, **8.268**
- Abelian equation, **5.410**, 476
- his life, **5.39**
- Abelard, Peter, **2.195n**, 276, 277, 464, 481, **5.26**, 32, 37, **8.258**, 268, 639
- Historia Calamitatum*, **3.272**, 371
- Introductio in theologiam*, **2.312**
- Ouvrages inédits d'Abélard*, **2.52n**, 312
- Absence, **2.109**
- Absolute, **6.441**, **8.xxxix**
- as character of law, **8.15**, 105, 129

- Absolute (*continued*)
 its doctrine applied to space, **8.108**
 false mode of looking at things, **6.166**
 First, **6.170**, 171
 forbidden assumption of, **6.167**, 252–53
 in geometry, **8.xxxi**, 29
 kind of term, **6.166**
 mathematical, **8.17**, 22, 364
 mathematical doctrine of, **8.92**, 382
 and measurement scales, **5.249–51**, 450
 metaphysical and mathematical, **5.251**, 450
 in metaphysics, **8.22**
 minimum and maximum, **6.200**
 predication of, **2.135**
 said of mathematical points, **6.173–74**,
8.107
 Second, **6.171**
 three kinds of, **5.249–51**
 various senses of, **2.109–14**
See also Exactitude; Uniformity
- Absoluteness
 world of, **1.47**
- Abstinence, **2.114**
- Abstract
 vs. abstraction, **2.157**
 vs. concrete, **2.157**
 vs. general, **2.154**
 intuited as a concrete form, **6.187**
 modes of signification or representation,
2.114–15
- Abstracting, **2.116**, 172, 335
- Abstraction, **1.145–46**, 518, 522, **2.50**, 81, 84,
 103, 117, 148, 151
 abstract term, **3.99**
 and agreement of things, **2.52–53**
 as attention, **2.231–32**
 and being, **2.145–48**
 combined with manifold of sensation, **1.85**
 composition of, **1.83**
 as formation of concepts, **2.174**, 208
 as formation of habit, **2.233**
 as formation of ideas, **2.481**
 as generalization, **2.190**
 judgment of, **1.168**
 kind of, **1.353**
 as a kind of mental separation, **1.473**
 and nothing, **2.145–48**
 in perception, **2.236**
 pure, **2.52–53**
 related to the nature of the perfect, **1.84**
 and similarity, **2.475**
 three kinds of, **5.238**
 various senses of, **2.116–17**
 world of, **1.47**, 70, 84
See also Precision
- Abstrahent*, **2.117**
- Absurd, **2.118**
- Absurdity, **3.37**
See also Unreality
- Abulola, **4.435**, 589
- Abunowas, **4.435**, 589
- Acatalepsy, **2.119**
- Acceleration
 laws of, **3.206**
 parallelogram of forces applied to, **3.269–**
70, 368–69
- Accent
 as fallacy, **5.351**
- Acceptation, **2.119**
- Acceptilation, **2.119**
- Accident, **2.55**, 119, 121, 482
 conception between being and substance,
1.520
 grammatical, **2.320–21**
 and logic, **1.338**
 of the noumenon, **1.313–14**
 and predicate, **5.235**, 445
See also Categories
- Accidental
 various senses of, **2.120–21**
- Accommodation
 principle or law of, **8.180**, 180*n*.8, 408
- Accords, Stephen Tabourot, **4.435**, 589
- Accuracy
 as research factor, **8.xli**
 of thought, **6.104**
- Achilles and the Tortoise, paradox of, **2.163**, 173,
 178, 207, 211, 254–56
See also Paradox
- Act
 of believing, **3.59**
 definition of, **5.472**
 pure, **2.138**, 142
 of thinking, **3.46**, 58
- Acta Mathematica*, **8.139**
- Action, **8.xcv**, 431
 brain-dependent, **8.282**
 dependent on nerve matter, **6.499**

Action (*continued*)

determined by belief, 3.20–21, 22, 23, 50, 77, 264
 determined by conviction, 3.21
 directed towards an end, 4.45, 46
 at a distance, 8.xxxii, 78, 165, 404
 doubt terminating in, 3.285
 and effort, 5.390
 and energy, 5.402
 and habit, 3.265, 362, 363, 4.422, 553
 influenced by thought, 3.108
 instinctive, 2.233
 mechanical, 8.16, 408
 men of, 8.38
 mental, 3.19, 24, 8.xxxix, lxxiv, lxxxii, 13, 16, 95, 97, 135, 152–53
 mental vs. mechanical, 6.193
 muscular, 8.13, 14
 and presence of acting thing, 8.78
 rational, 2.272
 and reaction, 3.204–5, 5.225, 230, 247, 280, 6.185, 189, 214, 215, 445, 448, 458, 8.104, 181
 reflex, 6.190, 191
 regularity of, 8.408
 removing irritation, 4.163–64
 and responsibility, 6.178
 responsibility for, 3.312
 reversible, 8.432 (*see also* Reversibility)
 rule of, 3.264, 362
 spontaneous, 8.16
 thought as, 3.263, 362
 voluntary, 2.233, 8.16
 voluntary and involuntary, 5.327–28
See also Reaction

Activity

energy as, 5.401
 and sense of resistance, 5.246

Acton, Thomas A., 8.462

Actual, 5.166

denoted by index, 5.xlvi, 164, 168–69
 part of logical triad, 5.243
 vs. possible, 5.331, 372–73
See also State of things

Actuality, 1.18, 47

actual and potential, 5.402
 actual world, 5.xlvi, 164
 a category of the It, 1.530
 degree of modality, 1.38

distinguished by index, 5.380
 energy as, 5.275*n*, 401, 404
 entitative, 5.404
 vs. generality, 5.380
 and hypothetical proposition, 5.166, 169–70
 probability's concern, 6.255
 reality of, 5.xlv, 6.lxxxii
 roof of Plato's cave, 6.255, 258
See also Existence; Reality; Second (Secondness)

Ad

perfectly ordered set, 6.360

Adam, 5.238–39, 295, 299, 304, 6.170

Adams, Charles Kendall, 6.276, 475

Adams, Francis, 8.485

Adams, Herbert B., 4.lxxvii

Adams, John Couch, 8.204, 418

Adams, John Quincy, 5.153

Adamson, Robert, 8.30, 367

Adaptation, 8.22

of the brain, 8.283

to the environment, 199 6, 450 6, 8.103, 193, 244

million players example, 6.199–200, 451–52, 453

of mind to nature, 8.26, 415

of nature, 8.119, 121, 189

of products to ends, 8.119, 121

See also Survival of the fittest

Addison, Joseph, 8.280

Addition, 4.181, 186–90, 193, 8.51

algebraic, 2.360–61

arithmetical, 2.12, 60, 64, 65, 66

associative, 4.23–24, 27, 33, 302, 303, 306, 456, 482

and card-counting, 8.2–3, 10–11

of chances, 3.294

commutative, 4.24, 30, 306

definition of, 4.23, 26, 29, 31, 223–24

distributive, 4.27

dropping of terms, 6.5

geometric, 2.494

geometrical, 3.269–70, 367–69

of infinite numbers, 4.304–6

invertible, 2.361, 445

in Jevons's machine, 6.66

limitless, 4.194

Addition (*continued*)

logical, 2.13, 15, 21, 60, 61, 368–69, 445,
5.xxvi, 113, 381–87, 422, 433, 6.1, 51,
8.xxxviii, 55, 75–77, 255, 256
logical properties of, 5.383
and logical sum, 5.215–19
meaning of, 8.66, 77
and multiplication, 4.25
non-invertible, 2.494
non-relative, 4.182–83, 344, 5.113
notation of, 4.xlv
vs. number, 5.396
its parallelism with logical multiplication,
5.435
of probabilities, 3.290–91
properties of, 6.2, 8.66
of propositions, 5.177
and quantification, 5.114
relative, 4.338, 343, 347, 392, 455–56, 482
of relative numbers, 3.286–87
sign of, 5.107–8, 110, 114, 168, 177, 6.1, 51,
269, 8.30, 55, 63, 64, 71, 255
transaddition, 4.204
of vectors, 3.238
See also Disjunction; Insertion; Logic; Sum

Adjunct, absolutely proper, 2.113

Adler, Felix, 8.246, 433, 438, 628, 629

Aeschylus, 5.26, 32, 35, 8.258

Aesop, 5.26

Aesthetics, 1.10–12
See also Schiller, Friedrich von

Affectibility, 8.lxxxii, 136
contiguity as, 8.397
continuous, 8.lxxiv, 126
of present, 8.lxxxiii, 146
of states of feeling, 8.146–47, 150
transitiveness of, 8.lxxxiii, 146

Affection, 1.4
absolute, 2.110
of feelings, 8.408–9
of ideas, 8.lxxxii, lxxxiii, 148–50, 155, 397

Affirmatives, 1.229–30, 301, 315, 365, 374, 482–
83, 505

Affirming
and asserting, difference between, 1.18

After-effect
in solids, 8.403

Afterlife, 8.lii, lxxviii
See also Future life

Agapasm, 8.xciv, 189, 194
genuine, 8.195
mode of development of thought, 8.xciv,
196, 203–5, 415, 418
and test of minute variation, 8.197
three varieties of, 8.196, 415
tychasm a kind of, 8.194, 195

Agapasticism, 8.194, 205
genuine, 8.195
proof of, 8.203

Agapê, 8.184, 410, 411

Agapism, 8.xciv, xcvi, 194

Agassiz, Elizabeth Cabot, 3.xxii, 8.lx
Louis Agassiz: His Life and Correspondence,
3.xxiii

Agassiz, Louis, 1.xvii, xix–xx, xxi, xxii, 218,
2.357, 3.xxiii, 5.26
“Concerning Deep Sea Dreadings,” 3.xxii

Agassiz School for Young Ladies, 1.xxxi

Aggregation. *See* Addition, logical

Agreement
accidental, 2.120
constituting reality, 2.xli
in science, 2.212, 313–14

Agricola, Rudolf
De inventione dialectica, 3.3

Aim
choice of, 5.232–33

Air
buoyancy of, 4.98–99, 109, 6.302
density of, 4.107, 6.282, 302
hydrodynamic effect of, 4.98–99, 102–4,
110–13
internal friction of, 4.104–7, 148–49
pendulum stream lines, 6.311 *illus.*
pressure of, 4.98–99, 100–104, 110–13,
148–49, 157–59, 376, 567
theory of effect on the pendulum, 6.310
viscosity of, 4.xxxi, 98–99, 104–7, 148–49,
157–59, 6.xliii, lx, lxix, 282, 302
See also Atmospheric effects

Airy, George Biddell, 4.375

Akif-bey, 8.307–8, 459

Akritas, Basil Digenis, 8.302, 457, 460

Aladdin, 8.306

Alain de Lille, 2.312

Albaycin, Joaquin, 8.462

Albertus Magnus, 2.150, 277, 8.200, 268, 278

- Albrecht, Carl Theodor, **4.84**, 133, 516, 563, 5.310
- Alciato, Andrea, **8.371**
- Alcibiades, **5.26**, 32, 36, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 104–6, **8.258**, 279, 448, 639
- Alcott, Amos Bronson, **8.392**
- Aldrich, Henry, **8.85–86**
Rudiments, **8.85–87**, 381
- Alembert, Jean Le Rond d', **5.26**
- Alêtheia, **8.114**, 388
- Alexander, Samuel, **8.431**
- Alexander of Hales, **2.73**
Summa theologica, **2.73n**
- Alexander the Great, **5.26**, 32, 36, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96–103, 104–6, **8.lxvi**, 258, 268, 269–70, 277, 279, 445, 448, 462, 639
- Alfieri, Vittorio, **5.26**
- Alfred the Great, **5.26**, 32, 36, **8.258**, 441
- Algebra, **1.173**, 306, 404, 528, **8.24**, 561
absolute, **3.177**
vs. analytical geometry, **8.57**
application of algebraic signs, **2.363–71**, 377–79, 492–97
arithmetical, **8.66**
assertion in, **5.107–8**
associative, **3.199–200**, **4.xlvii**, li, liii, liv, lvii, 225–26, 228–32, 312–27, 383, 583
best instrument of thought, **6.71**
bi-quaternions in, **4.231**, 385
Boole's, **4.xlvii**, **4.xlviii**, 21, 265, 381, 406–7, 478, 479, 481, 484, 493, 500, 508, 509
Boolean, **5.xxvi**, 107, 114, 167–68, 174–75, 177–78, 361–71, 372, 381–87
calculus, **4.218–19**, 265
vs. calculus, **5.363**, 371, 373, 464
of copula, **5.108**, 112, 114, **8.xlvii**, **4.xlviii–xlix**, 210–21, 419–23, 612–21
copula in, **3.186**, 187, **4.173–74**, 193, 347, 477, 573, 587
and counting, **5.220**
and *deductive logic*, **5.165**
equation in, **5.410**
erasure, **4.219–20**
exercises, **8.67–68**, 254–57
formulae of, **5.165**
general, **8.222**
icons of, **5.165**, 170–74, 178, 186–87, 198, 440
idempotent expression in, **4.225**, 226, 232, 583–84
index in, **5.164**, 174
and involution, **3.187**, 188
involution in, **5.192–95**
language of, **5.177**, 362–63, 464
and ligation, **3.186–88**
linear and multilinear, **5.433**
of logic, **4.xxxvi**, **4.xliv**, **4.xlv**, 21, 23, 163, 173–74, 243, 264–66, 381, 401, 407, 493, 590, **5.xxvi**, **5.xxvii**, 107–8, 109–10, 111–15, 162–90, 191–203, 204–20, 361–71, 372–78, 381–84
logical, **2.xxxiii**, **4.xlii**, **4.xlvi**, 359–60, 384, 387–88, 417, **6.69**, 263, **8.xxx**, **4.xlvii**, 63, 66, 69, 562
multi-copula, **2.451–53**
multiple, **3.199**, 201, 238, 239, **4.lv**, **4.lvii**, 228, 469, 581–84
negative unity in, **4.227**, 228, 230
nilpotent expression in, **4.225**, 315
nonions in, **4.lvii**, 386, 467–68, 470–71
non-relative, **4.182n**, 229
notation of, **4.203–4**, 208, 219, 221, 243, 469, 470
and number, **5.220**
observation in, **5.165**
operations, **4.219–21**, 319–20, 458–59, 479
operations of extended, **2.492–97**
ordinary, **6.50**, 51, **8.57**, 65, 67
ordinary vs. logical, **5.197**
as a part of logic, **3.83–84**
Peirce's law (fifth icon), **5.173–74**
propositional, **8.xxx**, 71
quaternions in, **4.xlvii**, 230–31, 313, 314, 322, 326, 334–35, 387–88, 467–71, 581, 591
raising to power, **5.212–13**, 214
relative, **3.177–78**
of relatives, **4.liii**, **4.lix**, 193, 204–8, 328–33, 347, 348, 398
rule as permission, **8.65n.2**, **72n.2**
rules of, **8.65–66**, 72–74, 210–11, 213, 215
and scalar, **3.177**
scalars in, **4.225**, 229–30, 232, 233, 235, 324–25, 327
sign of inclusion introduced into, **4.182n**
signs of defined, **2.360–63**
signs used in, **5.174**, **6.1–5**, 50–51, 53, 263, 269, **8.63**, 64

Algebra (*continued*)

single-copula, 2.451–56
 substitutions in, 4.383–87
 sum in, 5.215–19
 token in, 5.164, 165, 169, 174
 truth values in, 5.381, 382
 using streamer notation, 5.462
 and vector, 3.238–39
 vectors in, 4.232, 233–37, 324–27, 334, 576
 and vid, 3.161–63
 without negative copula, 4.347
See also Addition; Boole, George; Boolean algebra; Calculus; Copula; Elimination; Logic; Mathematics; Multiplication; Notation; Proof; Quantification; Rule
 “On the Algebraic Principles of *Formal Logic*” (item 6), 4.xlv
 “On the Algebra of Logic” (item 19), 4.xi, xlv–xlvii, xlix, lii
 “On the Algebra of Logic” (item 30), 5.xxii, xxxii–xiv, xxxv, xliii, 224*n*, 281, 435
 “On the Algebra of Logic” (P 167), 5.xxvi, xxvii*n*, xxxii, xliii, 108, 433, 6.166, 417
 “On the Algebra of Logic” (P 296), 4.xli
 “Algebra of the Copula,” 8.xlvii, 612–13, 614, 615–19, 620
 Ali Baba, 8.310
 Aliorelation, 6.364, 489
 Allegheny Observatory, 5.1, 6.476
 Allison Commission, 5.xxviii, xxix, xxx
 Alphabet. *See* Letter
 Al-Sôfi, 3.389, 474
 Amagat, Émile-Hilaire, 8.171, 405–6
 Ambiguity
 of propositions, 5.240–41
 Ambrose, Saint, 5.29
 American Academy of Arts and Sciences, 1.xxii, 2.xxv, xxxii, 3.xxvii, xxxv, 180, 385, 4.321*n*, 332, 333*n*, 576
American Academy Series, 4.xxxvii, xlv
 American Association for the Advancement of Science, 1.xvi, xix, 5.xxx, xxxi
American Ephemeris and Nautical Almanac, 1.xvi, 5.1*n*, 408
American Journal of Mathematics, 3.xxix, 4.xxxix, xl, li, 5.xxii, xxvi, xxxiii, xliii, 224*n*, 281, 372, 6.lv, 166, 361, 8.xlvii, lxx*n*.85, 37
American Journal of Psychology, 6.xxxv, 8.lxvi
American Journal of Science, 4.150, 161–62

American Law Review, 3.xxxiii, xxxiv, 209
American Meteorological Journal, 5.136
 American Metrological Society, 3.xxvii, 5.xxii, xxiii, xxviii
American Naturalist, 3.xxii
 American Philosophical Society (Philadelphia), 3.xxvii, xxxii
 American Social Science Association, 3.xxxiv
 American Society for Psychical Research, 5.xxvi, 6.xxxiv, 101, 430, 434, 435, 8.409
 American thought, 8.231, 437
 need for encyclopædic history of, 8.453
 Amphibology
 fallacy of, 5.351, 414
 Amplification, 5.433
 Anæsthetic, 8.191, 204–5, 413
 Analogous name, 8.87
 Analogue, 1.xxxiii, 6.179
 as a kind of representation, 1.308
 Analogy
 ampliative inference, 8.113, 388
 argument from, 2.46–47, 48, 218*n*, 220
 element of notation, 5.111, 112
 and hypothesis, 2.47
 and induction, 2.47
 order of, 8.415
 reasoning by, 6.248, 249
 and syllogism, 2.48
 thinking tendency, 8.414
 See also Icon
 Analysis
 absent in immediate consciousness, 6.214
 as diagram of problem, 6.451
 distrusted by biologists, 6.451
 of first principles, 8.272
 in language, 6.213
 limit of, 2.147
 mental, 2.303
 method of, 6.450
 as method of positivism, 2.303
 as part of inventing, 8.52
 planetary motion, 6.451
 preceding synthesis, 6.449
 process of, 2.147–48
 in psychology, 8.397
 of spatial qualitative contiguity, 6.190
 vs. synthesis, 2.147–48
 and synthesis, 5.244

- Anancasm, **8.xciii**, 194, 414
 degenerate form of agapasm, **8.194**, 195
 external, **8.199–200**, 415, 416, 418
 internal, **8.200–203**, 415
 mode of development of thought, **8.xciv**,
 196, 199–203, 415, 418
 and test of minute variation, **8.197**
 two varieties of, **8.196**, 199–203, 415
See also Determinism; Necessitarianism
- Anancasticism, **8.194**, 195
- Anancism, **8.xciv**, 194
- Anaxagoras, **2.134**
- Anaximander, **6.444**, 446, 453–54
- Anaximenes, **5.296**, **6.444**, 446
- Andrews, Ethan Allen, and Solomon Stoddard
A Grammar of the Latin Language, **2.157**
- Anellis, Irving, **5.xxviii**, **xxxiiin**
- Angel Gabriel, **8.72**
- Angell, James Burrill, **6.277**, 475
- Anger, **2.172**, **8.16**
- Ångström, Anders Jöns, **2.288**, **3.212**, **4.xl**, 240
Recherches sur le spectre solaire, **4.576**
- Animal kingdom
 four branches of, **1.150**
- Annalen der Physik und Chemie*, **3.180**, 385*n*,
8.168
- Anne, Queen (1665-1714), **8.270**
- Anschauung*, **2.234n**
- Anselm, **2.117**, 276, 312, 422, **3.307**
 argument concerning reality of
 abstractions, **1.67**
 book in favor of the fool, **1.447**
 proof of the existence of God, **1.446–47**
Monologium, **2.117**, 193*n*
- Antecedent, **8.252–53**, 616
 of an argument, **2.432**
 of argument, **3.290**
 of clause or proposition, **8.210–11**, 212
 commutation of, **5.342**
 commutation of —s, **8.208**, 210, 213, 420,
 421, 422, 423
 of a consequence, **2.348**
 and fallacy, **5.352**
 in hypothesis, **5.336**, 337
 of hypothetical proposition, **8.72**
 of inference, **3.203–4**
 inferred *a posteriori*, **1.180**
 internal and necessary, **1.493**
 in parenthesis, **5.176**
 related to consequent, **5.114**, 236, 335, 341,
 361, 445, **6.5**
 rules regarding, **8.210–11**, 213–16, 422
 sign of the consequent, **1.337**
 and streamer notation, **5.361–71**
 transposition of, **5.170–72**, 440
See also Consequent; Premise
- Anteros, **8.185**, 411
- Anthony, William Arnold, **6.276**, 475
- Anthony à Wood, **8.39**, 372
- Anticipations, **1.152**
- Antilogarithm, **8.48**, 51, 52, 548
- Antithesis, **2.141**
- Anxiety
 factor in rejecting testimony, **6.75**, 115–16,
 118, 122–23, 126, 138, 153, 154
- Anything
 in logic of relatives, **2.374**
 and universe of discourse, **3.115–16**
See also Some
- Apagogical
 argument, **2.27**, 29–30
 proof, **2.48**, 108
- Apelles, **5.26**, 32, 35, **8.258**
- Apelt, Ernst Friedrich, **1.163**, 205
- Aphorism, **8.52**
- Apollonius of Perga, **5.32**, **8.258**, 441
- A posteriori*
 as term used by Kant, **1.159**, 245–46
 various senses of, **2.106–7**
See also *A priori*
- A posteriori, a priori. See* Antecedent; Axioms;
 Cognition; Conception; Consequent;
 Inference; Judgments; Knowledge;
 Metaphysics; Object; Propositions;
 Reasoning; Representation; Thought
- Apparition. *See* Ghosts
- Appearance
 vs. fact, **2.168–69**
 and reality, **2.470**
 in Swedenborg, **2.433–34**
- Apperception, **2.200–201**
- Appleton, Nathan, **8.374**
- Applicability
 of anything, **8.52**
- Application, **1.150–51**
 “On the Application of Logical Analysis” (P 90),
4.229n, 321, 332, 333*n*, 469–70, 576, 583, 591

- Apprehension
 clear, 3.xxix, 258, 260, 266, 356, 358, 365
 distinct, 3.258, 356
 simple, 8.86, 381
- Approximation, 8.113–14
 of course of events, 6.208
 philosophical fabric, 6.205
 of scientific propositions, 6.204
- A priori*
 and Kantian categories, 5.235–36, 449
 method, 3.28, 253, 255, 259, 273, 350–51, 353, 356, 372
 of space, 2.417*n*
 synthetic *a priori* judgment, 3.303–4
 as term used by Kant, 1.159, 245–46
 various senses of, 2.106–7
See also A posteriori
- Apuleius, Lucius, 2.108, 8.64, 71, 342, 379, 464
- Aquinas. *See* Thomas Aquinas, St.
- Arago, Dominique François Jean, 4.5, 8.278
Recueil d'observations géodésiques, 4.563, 565, 585
- Arbitrariness
 its amount in mental phenomena, 8.154
 of firstness, 6.211
 and firstness, 8.87, 109
 of mental action, 8.153
 philosophical theoretical conception, 8.89
 of special ideas, 8.154
- Arc
 descent of, 6.310–26, 468, 483
 observations of, 6.313–14
See also Gravity determinations; Jeanne d'Arc; Pendulum
- Arche*, 6.1, 181
 in early Greek philosophy, 5.295–96
- Archibald, Raymond Clare, 6.476
- Archimedes, 4.450, 5.26, 32, 37, 6.385, 8.113, 258, 268, 277, 278, 279, 388, 639
 notes on, 5.39
 his principle of the lever, 6.494, 495
- Architectonic
 philosophical, 8.xxxiv, 110, 381
 of systems, 8.85, 99, 381
See also System
- Architecture
 Gothic, 8.203, 418
 house-building metaphor, 8.84–85, 98–99, 380
- Saracenic, 8.418
- “The Architecture of Theories” (sel. 22), 8.xxxvii, 565–69
- “The Architecture of Theories” (sel. 23), 8.xxxi, xxxii, xxxiv, xxxv, xxxvi, xxxvii, xxxix–xl, xliv, xlix, liii, xciii, 111, 126, 126*n*.1, 135, 165, 526, 570–74
- Archiv für Anatomie, Physiologie, und wissenschaftliche Medizin*, 3.385*n*
- Area, 2.83
See also Breadth; Depth
- Aretino, Pietro, 8.258, 441, 639
- Argelander, Friedrich Wilhelm August, 3.xxv, 1–2, 185, 389, 478
Uranometria nova, 3.1–2, 182, 183, 185, 407, 473, 474, 475
- Argument, 1.370, 443, 445, 2.58, 294, 295, 351, 8.116, 236
 ambiguity of, 1.447–48
 from analogy, 4.433
 apagogical, 2.27, 29–30
 appeal of, 2.294
argumentum ad hominem, 8.231, 427
 Barbara as form of, 3.91
 and belief, 4.421
 vs. belief, 8.118
 and categories, 4.588
 chance of, 3.293, 294
 classification of arguments, 3.323, 4.588
 common character of, 1.394
 complete, 2.24–25, 24*n*–25*n*, 26, 237–38, 295, 297, 4.167–68, 169
 complex, 2.26, 297
 conclusion and premise of, 4.168–69
 conclusion of, 2.23–26, 294–97, 432
 consequent of, 2.295, 432
 decomposition of, 2.25–26
 deductive, 1.437
 demonstrative, 2.43, 294, 3.280
 and dialogism, 4.169
 divisions of, 1.437, 485–86
 elements of, 1.268
 enthymematic, 2.24, 24*n*–25*n*, 295
 by enumeration, 5.405
 and ethymeme, 4.167–68
 general form of, 2.27
 genus of, 8.235
 hypothetical, 1.283, 435, 442
 incomplete, 2.24, 24*n*–25*n*, 295

- Argument (*continued*)
 independent, 3.294
 inductive, 1.283, 430, 433–34, 442
 leading principle of, 2.23–25, 294–95, 3.290
 logical leading principle of, 4.167, 168
 logical principle of, 2.24–25, 296
 method of balancing reasons, 3.294, 296
 Mill's view on, 1.448
 premise of, 2.294–95, 296–97
 probable, 2.22, 86, 215–16, 294, 3.280–81, 290, 294–95
 producing knowledge, 1.347
 reduction to Barbara, 3.91
 reference to an interpretant, 1.478
 and representation, 1.478, 486
 rhetorical, 2.24, 24*n*–25*n*, 295
 simple, 2.26, 297
 statistical, 2.217
 and syllogism, 1.268, 478, 2.26, 431
 as symbol, 1.347, 485, 2.57–58
 three kinds of, 1.xxxiv–xxxv, 6.166
 valid, 2.23, 215–16, 222, 294, 351, 431–32
 validity of, 1.363, 437–38, 4.168–69
See also Consequence; *Dictum de omni*; Inference; Reasoning; *Reductio ad absurdum*; Syllogism
- Argumentation
 as logical form, 5.239, 295
modus ponens as complete, 5.334
See also Inference
- Arisbe, 5.xx, 6.li, 8.lxx, 632
 anagram of, 6.lxxii
 naming of, 8.xlviii, xlviii.38
 the Peirces' house, 6.440, 8.xxvi, xlvii–xlviii
 seasonal renting of, 8.lxii
See also Quicktown; Sunbeams; Wanda Farm
- Aristophanes, 5.32, 8.lxvn.76
 Aristotelianism, 2.274, 436, 472
 its inmost essence, 8.111
- Aristotelicity
 Aristotelical principle, 8.145
 property of continuum, 8.144, 145, 395
- Aristotle, 1.xxvi, xxviii, 93, 302, 2.xxxi, xxxii, 70, 134, 138, 195*n*, 218*n*, 313, 333, 435, 441, 463, 4.xxxvii, 178*n*, 400, 424*n*, 568, 586, 592, 5.26, 32, 37, 232, 298, 417, 6.li, 257, 273, 446, 447, 500, 8.liii, lxvi, 24, 112, 200, 203, 258, 268, 277, 279, 362, 380, 395, 418, 444, 448
 on abduction, 2.108
 on absolute, 2.109–10
 on abstraction, 2.116–17
 on accident, 2.119
 on algebra, 3.84
 analysis of propositions, 1.351, 418
 Arabian commentators of, 2.277
 and association of ideas, 2.307
 authority of, 2.315–16
 on categories, 1.xxiv, 351, 2.231, 431–32, 4.560
 his categories, 8.85
 on category of quantity, 6.472
 on causality, 6.204
 on chance, 4.547
 on continuity, 8.144, 395
 on conversion, 2.93
 on definition, 1.58
 his definition of element, 5.393
 his definition of entelechy, 5.404
 his definition of enthymeme, 5.404
 his definition of *epicheirema*, 5.408
 definition of logic, 1.163
 his dependence on Alexander, 8.269–70, 445
 his doctrine of fallacies, 5.351–52
 his doctrine of syllogism, 5.352
 on ether, 5.418, 419
 evolution of theory of induction, 1.264–65
 on fallacies, 1.200
 his foundational concepts, 6.168, 203, 397, 440
 on geometry, 6.454
 and German philosophy, 2.136
 on induction, 1.163, 176–77, 179, 263, 2.217
 his influence, 6.168
 on intellect, 2.472
 and logic, 1.351
 his logic, 5.324
 logic before, 2.430
 on *materia prima*, 2.476
 and medieval logic, 2.466
 on metaphysics, 1.58, 115, 152
 on natural classification, 5.359–60
 non-necessitarian evolutionist, 8.387
 on philosophy, 1.490, 3.237

Aristotle (*continued*)

on potency and energy, 5.275*n*, 402
 on *a priori*, 2.106
 on quantification of predicate, 5.353
 reply to Zeno's third argument on motion, 1.392
 on rhetorical argument, 2.295*n*
 scholastic philosophers on, 3.272, 371
 on sophisms, 1.200
 and the Sophists, 1.199, 390
 on spoken words, 2.319
 on syllogism, 4.177, 508
 on syllogisms, 1.177, 262, 376–78
 his term *indefinite*, 1.253
 on validity of inductive inference, 1.177
 as viewed by Francis Bacon, 1.103
 the “what” and the “why,” 1.504
Analytics, 1.457, 2.105
Categories, 2.316
De anima, 2.432
De interpretatione, 2.331
Metaphysics, 1.58
Organon, 1.xxiv, 224
Organon, 2.xxx, 351–52, 353, 6.65
Peri hermeneias, 2.316
Physics, 8.111, 365
Posterior Analytics, 1.152, 2.108, 4.487
Prior Analytics, 1.263, 2.108, 316
Sophistici Elenchi, 2.263*n*
Sophistic Refutations, 4.509, 592
Topics, 4.487, 592

Arithmetic, 8.xliii, 53

its analogy in Boolean algebra, 6.50–51
 basal proposition of, 8.140
 compound, 8.349
 Fermat's little theorem, 6.39–40
 fundamental theorem of, 8.134
 vs. logic, 5.168–69, 439
 mechanical process, 6.387
 number series, 6.41–42
 operations in, 8.xxix, 2–6
 reading of old textbooks in, 6.liii
 regular method of proof in, 8.55
 rule of false applied in, 6.252
 textbook, 8.xxix, xliii
 in treatment of logic, 8.31
See also Number

Arkwright, Richard, 5.26, 32, 38, 8.258

Arnauld, Antoine

L'Art de penser, 5.360, 462

Arnauld, Antoine, and Pierre Nicole. *See* Port-Royal Logic

Arnold, Benedict, 5.437

Arrangement

of chemical elements, 8.284–85
 of objects in a row, 8.131–32, 226–27
See also Order; Series

Arréat, Jean Lucien, 8.42, 373

Arrhenius, Svante August, 8.172, 406

Art

in classification of sciences, 8.275
 conceptions of, 3.252, 350
 of feeling aright, 8.356
 kinds of artistic expression, 6.212–13
 of oration, 8.355–56, 469
 vs. science, 6.187
 theory vs. practice, 8.356
 of writing, 8.355
See also Reasoning, art of

Artevelde, Jacob van, 5.26

Artevelde, Philip van, 5.26, 32, 36, 8.258, 639

Arthur, Chester Alan, 6.xxxi

Artist, 8.92

“Art of Reasoning”

proposed logic textbook, 6.420

As great as

axiom of, 6.155, 156
 definition of, 6.159
 at least, 6.156, 157, 160

As low as

at least, 8.73, 75

Assassins, The, 3.22, 247, 344

Assay Commission, 6.xlv

Assent

to a conclusion, 8.235, 236, 237

Asserting

and affirming, difference between, 1.18

Assertion, 2.52, 104, 294

absolute, 5.241

of existence, 4.253–54, 5.112, 336–37

implying denial, 6.170

and index, 5.163, 379

as mathematical monad, 6.270

and meaning, 3.101

operations on, 5.107–8

of a proposition, 8.64, 67

of rule, case, and result, 1.378

- Assertion (*continued*)
 sheet of, **8.419**, 420
See also Negation
- Assimilation, **6.489**
 of feelings, **8.104**
 of food in protoplasm, **8.158**, 159, 163, 175, 176–77, 400
 law of, **8.18**, 22
 and law of mind, **8.97**
- Association, **2.50**, 224, 232, 305, 472, **5.298**, **8.xxx**, lxxiv, 123
 and belief, **3.22–23**
 between sign and object, **4.251**
 by contiguity, **5.326–27**, **6.186**, **8.127**, 397
 continual increase of, **8.128**
 emotional, **8.xxx**, 14
 essence of, **8.15**
 external and internal, **8.19**
 and fatigue, **8.129**
 formula of, **5.192**
 gentle force of, **8.15**
 as habit, **3.23**, 66
 habit of, **4.249**, 250, 553
 habitual, **5.111**
 hidden laws of inward, **6.xxix**
 of ideas, **2.196**, 237, 306, 307, **3.33**, 62–63, 66, **5.243**, 326–28, **6.177**, **8.lxxxiii**, 16, 127–28, 150, 151, 238
 law of, **2.223–23** 24, 237, **8.19**, 22, 129
 law or principle of, **3.33–34**, 40, 62–63
 mental, **5.162**, 379, 380, **6.212**, 457, **8.569**
 natural, **5.111**
 nervous, **3.22–23**, 247, 344
 perception as, **8.235**, 238
 process of, **8.15**, 235–36
 and representation, **3.62–63**
 by resemblance, **2.305–6**, **6.187**
 by signs, **2.238**
 by similarity, **5.326–27**, **8.127**, 397
 source of propositions, **8.31**
 and spreading of motion, **8.16**
 theory of, **8.13**
 of thoughts, **3.40**
See also Connection; Suggestion
- Associationalism, **8.112**, 388
- Association Philosophy
 English, **1.457**
- Associative principle, **2.94–97**
- Associativity
 applied, **6.6**
 in logical algebra, **6.2**, 51, 52, 57
 principle of, **8.66**, 67, 256
 right-to-left, **5.435**, 439
- Assumption
 arbitrary, **6.251**, 252–53
 science of, **1.152**
- Assurance, **8.17**, 19, 116, 365
 of accuracy, **8.xli**
- Astor Library, **6.lxxiv**, **8.xxvi**, xxviii.4, xxix, xlvi, lxxviii
See also New York Public Library
- “Astronomical Methods of Determining the Curvature of Space,” **8.lix**, 492, 623
- Astronomisches Jahrbuch*, **5.408**
- Astronomy, **1.xx**, **4.350**, 351, 380, **5.325**, **8.243**, 248
 ancient, **4.378–79**, **6.451**
 vs. astrology, **8.288**, 452
 Bode’s law, **4.438**
 in classification of sciences, **8.275**
 and colors of stars, **4.161–62**
 and determination of the figure of the earth, **4.356**
 discoveries in, **4.154–55**
 galactic cluster, **3.183–84**
 history of, **5.325**
 and mechanics, **1.9**
 medieval, **5.324**
 method of, **3.243**, 340
 method of consequences, **5.123**
 Milky Way, **3.184**, 478–79, 482
 observation in, **3.42–43**
 and parallaxes of stars, **4.546**
 in plan for dictionary, **8.295**
 Ptolemaic, **4.489**
 rotation of the Earth, **3.42**, 48, 55, 169
 solar system, **3.307**, 320
 system of, **8.168n.5**
 terms of, **5.388–92**, 397, 399, 402, 406, 408, 410–12, 414–15, 419
 times of transit of stars, **5.309–16**
See also Kepler (or Keppler), Johannes; Star
- Atanasoff, John Vincent, **5.483**
- Athanasius, St., **5.26**, 32, 38, **8.258**, 441
- Atheism, **1.20**, 21, **2.124**, **3.321–22**
- Athelstan, King, **8.441**

- Atkinson, Norma P.
 “An Examination of the Life and Thought
 of Zina Fay Peirce,” 3.xxvi
Atlantic Almanac, 2.xxiii
Atlantic Monthly, 3.xxiii, xxxi
- Atmosphere
 absolute, 6.301, 302
 atmospheric pressure, 3.167–69
See also Climate
- Atmospheric effects
 calculation of coefficients, 6.305–8
 calculation of second effect, 6.lxv, 309, 482
 coefficient of friction, 6.314, 316–20
 discussion of, 6.301–9, 466
 elimination of, 6.280, 281
 Ferrel’s view of Peirce’s method, 6.481–82
 first and second, 6.302–3
 significance of second effect, 6.lxix
 two coefficients of, 6.282
See also Air; Gravity determinations;
 Hydrodynamics; Pendulum
- Atom, 8.161, 164, 172
 able to feel, 8.408
 atomic theory, 8.lxxn.85, 101, 111, 165,
 167–68
 atomicule, 8.lxxn.85, lxxxix, lxxxixn.111,
 285, 451
 atomic weight, 8.lxix, lxx, 284, 450
 impenetrable, 8.169
 in protoplasm, 8.xlix, 159, 181, 182
 swerve, 8.89, 111, 365
 valency of, 8.168
 vortex theory of, 8.404
See also Boscovich, Roger Joseph;
 Molecular dissociation; Particles;
 Submolecule
- Atomicity, 8.285, 451, 650
- Atomic weight, 2.282
- Atomism
 and firstness, 6.455
- Atoms
 not absolutely dead, 6.455
- Attention
 as abstraction, 2.231–32
 as activity, 5.246
 definite conception or supposition, 1.518–
 19
 and difference of sensation, 5.123
 external, 8.14
 to feelings, 8.148
 form of will, 6.185
 and habit formation, 2.232–33
 internal, 8.14
 physiology of, 8.14
 psychology of, 8.13–16, 408
 to qualities, 5.327
 thought’s throne, 6.496
 voluntary, 8.364
- Attila, 5.26, 32, 36, 76, 78, 80, 82, 84, 86, 88, 90,
 92, 94, 96–103, 104–6, 8.258, 268, 277, 278,
 279, 441, 448, 639
- Attraction
 between particles, 8.169, 171, 176, 399
 in classification of sciences, 8.275
 molecular, 8.lxxxix, 159–62, 167, 170–71,
 404, 405, 598
 and repulsion, 6.445
See also Force
- Attribute
 definite, 8.32
 and predicability, 3.99
 as a term of second intention, 3.99
See also Character
- Attribute, general, 2.53, 74, 75, 115
- Attribution, 2.181
- Atwood, George, 3.223, 228, 4.522, 593
- Auger, Maurice, 6.xxvn.2
- Augustine, St., 1.163, 5.26, 32, 38, 8.258
 De doctrina christiana, 2.313
 De Trinitate, 2.312, 318
- Augustus Caesar, 5.26, 32, 36, 76, 78, 80, 82, 84,
 86, 88, 90, 92, 94, 104–6, 8.202, 258, 277
- Auspitz, Josiah L., 4.lxv
- Austin, John
 on sources of law, 3.xxxiii
Lectures on jurisprudence, 3.xxxiii
- Authority
 argument from, 2.166
 external, 2.194–95
 internal, 2.195
 knowledge based on, 3.242, 339
 in medieval philosophy, 2.194–95, 312–13,
 314, 465–66
 method of, 3.250–52, 253, 254–56, 258–59,
 272, 331, 347–49, 350–51, 352–54, 356,
 371
 vs. reason, 2.166
 in scientific thought, 2.313–14

Authority (*continued*)

See also State

Average

matter of fact, 6.256
 statistical, 6.197, 255

Avicenna, 2.150

Avogadro, Amedeo

his chemical law, 8.100, 167, 204, 384

Awareness

direct— of inferential process, 6.354
 immediate, 3.32, 33
 of one's own existence, 3.50
 See also Consciousness; Dream;
 Imagination; Memory

Axiom, 5.440

basis of Spencerianism, 8.242
 exactitude of, 6.203–4
 exploded, 8.xxxi, 17, 21, 89, 108, 271, 364,
 432
 geometrical, 8.24, 31, 88, 109, 432
 of geometry, 3.14, 189–90, 5.292–93
 inconceivable falsity of, 3.203
 of logic, 2.429
 metaphysical, 6.167, 8.109
 of metaphysics, 5.292
 as object of doubt, 5.xlv, 292–93, 454
 of political economy, 3.176
 of probability, 3.127
 rejected, 6.167
 of unity of ultimate aim, 5.233
 See also Icon; Law

Axiom of Pairs, 5.444

Axioms, 1.56, 71, 152, 154, 218

a priori, 1.217
 of geometry, 1.444
 of intuition, 1.31–33
 as representation, 1.217
 Zeno's, 1.391

B

Babbage, Charles, 3.110, 6.428–29, 429

his analytical engine, 6.65
 calculating machines, 2.457–58
 on economy, 2.459
 his life and work, 2.457–59
Essay towards the Calculus of Function,
 2.457
Reflections on the Decline of Science in

England, 2.457

Bach, Johann Sebastian, 4.556, 5.26, 32, 35,
 8.258, 639

Bache, Alexander Dallas, 1.xix, xx, 2.xxi, 3.xxi,
 xxii, 8.46, 376

Bache Fund, 3.216

Bachmann, Karl Friedrich, 2.75, 76

Bacon, Francis, 1.xxiii, xxiv, 21, 101, 103, 162,
 2.99, 4.429*n*, 587, 5.xlii, 26, 32, 37, 286, 6.179,
 419, 8.lxi, 258, 279

Baconian induction, 5.296, 454

Baconian method, 1.70–71, 211

compared to Comte, 1.211

on experience, 3.243, 339

on the goal of science, 1.113

on induction, 1.163, 265–66, 3.253

induction, 6.181, 446

on law of nature, 3.334

on quantitative method, 3.277

on the reform of logic, 1.162

his three tables of instances, 1.220

on truth, 1.454

his view of Aristotle, 1.103

Novum Organum, 2.98, 311, 3.3, 243, 339,
 4.588–89, 5.325, 6.65, 428, 446

Bacon, Roger, 5.26, 32, 37, 324, 8.258, 441

on experience, 3.242, 339, 5.226

Baer, Karl Ernst von, 5.26, 34, 38, 8.639

Baeyer, Johann Jakob, 3.xxv, 217, 4.xxviii, 83,
 516, 517, 6.27, 421

“Rapport de la Commission,” 4.593

Bailey, Nathan, 1.132

Baily, Francis, 3.389, 4.530

“Report on... Pendulum Experiments,”
 4.594

Bain, Alexander, 1.495, 2.304, 336, 4.589, 5.402,
 447, 454, 6.lxix, 271, 272, 473

applied logic, 2.441–43

on causation, 2.443–44

on definition, 2.443

his definition of belief, 3.xxxi

definition of logic, 2.442

Logic, 2.441*n*, 4.182*n*

Baird, Spencer Fullerton, 6.275, 475

Baker, Marcus, 5.8, 13, 426

Balancing reasons

method or rule of, 3.294, 296

Baldini, Baccio (c. 1436–c. 1487), 8.278

Baldo degli Ubaldi (1327–1400), 8.278

- Baldwin, James Mark, **6.428, 8.180, 408**
Dictionary of Philosophy and Psychology,
3.xxxiv, 4.568, 585, 591, 5.xliv
- Bales, Peter, **1.119**
- Balfour, Francis Maitland, **6.502**
- Ball, Robert Stawell, **8.108, 248, 386, 439**
- Ball, W. W. Rouse, **8.lxxx**
- Baltzer, Ulrich, **6.442**
- Balzac, Honoré de, **5.26, 32, 35, 8.258, 277, 278, 279, 394, 639**
Physiologie du mariage, **8.139, 393**
- Bancroft, George, **2.xxxiv, 4.xxii**
- Barach, Carl Sigmund
Nominalismus vor Roscellinus, **2.312**
- Barbara, **8.1, 5, 6, 9, 11, 12, 362**
deduction in, **3.324, 328**
reduction of inferences to, **3.91, 196, 197, 323–24**
substituting in, **3.195**
deduction in, **3.329**
- Barbarians
age of migrations of, **1.106**
- Baret, John, **1.121–22, 123n, 130, 139, 142**
- Barham, Richard Harris, **6.436**
- Baright, Anna, **8.468**
- Barkley, Mrs. Robert G., **6.xxxixn.15, liii**
- Barnard, Frederick Augustus Porter, **4.151**
“A Report,” **4.566**
- Barneveldt, Jan van Olden, **5.26, 32, 36, 76, 77, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96–103, 104–6, 8.258, 441**
- Baroco, **8.6, 363**
and hypothesis, **3.328, 329**
- Baron, Jacques-François de (Menou), **8.268, 444**
- Barrow, Isaac, **8.445**
- Barth, Johann Ambrosius, **6.470**
- Bartlett, John, **8.46, 377**
- Bartolo da Sassoferrato (1304-1347), **8.278**
- Basevi, James Palladia, **4.355, 516, 585**
- Basis, **5.435**
as set of logical connectives, **5.434**
- Baudelaire, Charles, **8.281**
- Baudin, L. C., **4.276, 277, 278**
- Baumgarten, Alexander Gottlieb, **2.74, 106, 6.446**
- Baxter, Richard, **5.26**
- Bayard, Chevalier, **8.258**
Seigneur, **5.26**
- Bayes, Thomas
his theorem, **5.436**
- Bayle, Pierre
Dictionnaire historique et critique, **2.467, 487**
- Baynes, Thomas Spencer, **2.70n, 449**
- Beagle, **3.xxii**
- Beauty
absolute, **2.110**
its evanescence, **6.62**
the idea or sense of, **1.10–12**
kind of true synthesis, **6.187**
and knowledge and morality, **1.12**
Schiller’s definition, **1.10**
sense of, **2.172, 179, 206, 227–28, 5.288**
and sleep, **1.12**
and the soul, **1.6**
- Because
etymology of, **6.355, 487**
mark of universal and necessary sequence, **6.355**
- Beccaria, Cesare, **8.185, 277**
- Becker, George Ferdinand, **8.lx**
- Becket, Thomas. *See* Thomas à Becket
- Becoming, **2.137, 139–41, 147–48**
See also Dialectic; Hegel, Georg Wilhelm Friedrich
- Beers, D. G., **5.8, 426**
- Beethoven, Ludwig von, **5.26, 32, 35, 8.260, 277, 279, 639**
- Beginning, **8.22**
in order of existence, **2.137–38**
in order of knowledge, **2.137–38**
of philosophy, **2.138–39**
See also Dialectic; Hegel, Georg Wilhelm Friedrich
- Begriff, **2.143–44**
- Behrmann, Carl, **3.389, 479, 479n, 481, 482**
- Beiblätter zu den Annalen der Physik und Chemie*, **6.246, 470**
- Being, **2.51, 52, 80, 104, 139, 231, 471, 4.2, 23**
absolute, **5.xxxvii**
as an absolute logical term, **3.201**
as abstraction, **2.145–48**
beingness, **5.405, 417**
as category, **1.xxvi, 69, 331, 352**
as cognizability, **2.208**
comprehension and extension of, **4.8–9**
conception of, **1.517–18, 521**

Being (*continued*)

- conditions of, 1.28
 - and copula, 2.49–50, 69*n*, 175
 - definition of, 4.29, 31
 - dependent, 2.153–54
 - determination of, 2.140–41, 146–52, 156, 175
 - ens*, 5.403–4
 - entitative, 5.404
 - entity, 5.405
 - esse, 5.417
 - as an essentially negative term, 3.101
 - vs. existence, 2.433–34
 - and existing, 1.18
 - general, 2.103–4
 - general idea of, 3.80
 - immediate, 2.153–54
 - implied in the copula, 1.474
 - indeterminate, 2.80, 154
 - law of, 8.23
 - mere germ of, 8.xliv
 - modes of, 2.324–25, 4.508
 - and nothing, 2.xxxvii–xxxviii, 139–40, 148–51
 - parallel to nothing, 3.87–88
 - and predicability, 3.86
 - and predication, 2.157*n*, 231
 - pure, 2.138, 139, 146–48, 157, 157*n*
 - of the real, 3.61
 - and substance, 1.473, 501, 2.51–52, 54
 - supreme, 1.501
 - and thought, 2.137, 175
 - total, 2.153–54
 - as unity class, 2.60
 - unity of, 1.474–75, 486, 520, 524
 - See also* Conception; Determination; *Ens*; Existence; Nothing; Substance; Unity
- Belief, 2.205, 278, 471
- action determined by, 3.20–21, 22, 23, 50, 77, 264
 - act vs. object of, 3.59
 - vs. argument, 8.118
 - casting doubt on, 6.405
 - church creed, 8.240–41
 - of community, 3.25, 57, 250, 251–52, 347–49
 - compulsion in, 6.355
 - vs. conception, 2.170–71
 - and conduct, 3.108
 - content of, 3.61
 - definition of and pragmatism, 3.xxxi
 - degree of, 3.291–92, 293, 294, 296
 - destined, 3.40, 44, 102
 - determination of, 5.327
 - determined by another belief, 3.75
 - determined by external permanency, 3.253, 351
 - and doubt, 5.329, 446
 - and false scepticism, 5.229
 - feeling of believing, 3.22, 247, 293, 294–95, 344
 - about fiction, 3.272, 370
 - final, 3.45, 78
 - fixation of, 3.15–19, 25–28, 250–57, 275, 347–55, 374, 4.43–44, 476
 - and form of argument, 4.421
 - future, 3.59
 - generated from other beliefs, 3.60
 - and habit, 3.24, 75–76, 247, 248, 263–64, 337, 344, 346, 361–62, 4.43–44, 164
 - as habit, 8.237
 - habitual connection of ideas, 3.107
 - individual, 3.25, 26–27, 250, 251, 253, 347–49, 351
 - and inference, 5.328, 334*n*
 - inference from and of, 6.354
 - in inferences, 8.32
 - infinite, 3.294
 - and inquiry, 5.222–23
 - instinctive, 6.204, 205
 - intensity of, 3.293–95
 - as judgment, 2.171, 205
 - knowledge of, 2.170–71
 - method of fixing, 3.15–18, 25–28, 250–57, 347–55
 - as mode of cognition, 2.162, 170, 204–5
 - modes of expression of, 3.264, 362
 - natural, 8.119
 - and nervous association, 3.22–23
 - new elements of, 3.47–48, 55, 60
 - object of, 3.30, 45, 57–58, 59, 61, 78
 - part of reasoning, 8.251
 - passage from doubt to, 3.35, 78–79, 102, 105–6, 108, 246, 247–48, 261–62, 263, 343, 344–45, 359–60, 362
 - popular, 6.390
 - practical, 2.128
 - practically different from doubt, 3.247, 344

Belief (*continued*)

- and probability, 3.291–92, 295
- and proposition, 4.402
- in the real, 3.272, 370
- and reality, 4.164–65, 5.222
- and reasoning, 4.245, 5.372
- religious, 2.123, 125, 6.497
- sensational, 2.171, 205
- sensation of believing, 3.22, 247, 344
- as a state of mind, 3.20, 21, 246, 343
- supposed by logic, 5.446
- three characters of, 3.50, 263–64, 361–62
- traditional, 3.19
- true, 3.57, 248, 272, 345, 370–73
- See also* Creed; Investigation; Opinion
- Belisarius, 5.34, 36, 8.260, 268, 639
- Bell, Alexander, 8.419
- Bell, Eric Temple, 4.xlvii
- Bell, Louis, 4.xl, 578, 6.xliii, xliiiⁿ.23
- Bellini, Giovanni, 5.34, 8.260, 639
- Belshazzar, 8.349, 466
- Beltrami, Eugenio, 2.417ⁿ
- Bénard, Charles Magloire, 2.132, 133
- Benedetti, Giovanni Battista, 8.384
- Benedict, George A., 6.441–42
- Beneke, Friedrich Eduard, 2.441
- System der Logik*, 2.219ⁿ
- Benjamin, Marcus, 6.420
- Bentham, George, 5.460–61
- on quantification of predicate, 5.352
- Bentham, Jeremy, 3.209, 5.26, 32, 37, 408, 6.397, 8.185, 260, 268, 639
- Benthamism, 8.187
- Bentley, Richard, 5.26, 34, 37, 8.260, 639
- Berault, Pierre, 1.131
- Berengarius of Tours, 2.166, 194, 312–13
- De sacra coena*, 2.195ⁿ
- Bergson, Henri, 6.426
- Berkeley, George, 1.54, 2.116, 208, 238, 336, 477ⁿ, 3.xxix, xxxi, 5.26, 32, 37, 454, 8.lxvi, 84, 98, 260, 268, 441
- on abstract ideas, 2.477–78, 483
- on being and knowing, 1.348
- definition of matter, 1.348
- esse est percipi*, 2.478–80
- on existence, 2.483
- on God, 2.480
- idealism of, 2.181, 478–82
- on ideas, 2.304, 478–79, 481–82
- on image, 2.233–34
- his inconsistency, 6.397, 500
- influenced by Hobbes, 2.476
- metaphysics of, 2.462–63
- on mind and matter, 2.483
- on natural philosophy, 2.482
- nominalism of, 2.477–79, 483, 488
- on perception of space, 3.317
- relation to Hume, 2.483–84
- sources of his doctrine, 2.487
- on Spirit, 2.479–80
- theory of reality, 2.479–80
- theory of vision, 2.166, 196, 484–85
- A Treatise Concerning the Principles of Human Knowledge*, 2.477
- Principles of Human Knowledge*, 1.348
- The Works of George Berkeley*, 2.462
- Berlin, 8.35
- Bernard of Chartres, 2.125–26
- Bernard of Clairvaux, St., 5.26, 8.lxvⁿ.75, 260, 441
- Bernoulli, Daniel, 3.335, 8.403
- Bernoulli, Jacob, 5.26, 32, 37, 8.260, 441
- theorem of, 2.98
- Bernoulli, Johann (John), 5.26, 8.lxvⁿ.75, 167, 204, 260, 403
- Berthollet, Claude Louis
- law of, 2.442
- Berzelius, Jöns Jakob, 5.26, 32, 37, 8.260
- Bessel, Friedrich Wilhelm, 4.137ⁿ
- on the atmospheric pressure affecting pendulum, 4.100–104
- Besselian spheroid, 4.362
- his pendulum experiments, 4.83, 148, 357, 515, 516, 516ⁿ, 563
- pendulum of, 3.xxiv
- reversible pendulum of, 4.84
- on the slip of the knife-edge, 4.130–31
- “Bestimmung der Länge,” 4.585
- Fundamenta astronomiae*, 3.125
- Untersuchungen über die Länge*, 4.563, 565, 593
- Bezold, Wilhelm von, 3.180, 385
- “Über das Gesetz der Farbenmischung,” 3.385ⁿ
- Bézout, Etienne, 5.396, 8.37, 370
- Bhaskara, 5.26
- Bias of Priene, 6.418
- Bible, 2.313, 465

- Biblical references, **8.184**, 185, 198, 199, 341, 348, 349, 383, 410, 414, 415, 464, 465, 466
See also Gospel
- Bichat, François Xavier, **5.34**, 38, **8.260**, 268, 444
- Biela, Wilhelm von, **8.280**
- Bierstadt, Albert, **6.xxxviii**
- Bigness
 feeling of, **8.148**, 396
- Billings, Josh, **8.440**
- Binet, Alfred, **8.42**, 373, 382
- Binomial, **8.57**, 59
- Biography
 comparative, **5.xxiii**, xxiv, 426, **8.lxv–lxvi**,
lxvn.74, 259 *caption*, 637
 of great men, **8.lx**, lxv–lxvi, lxxi, 267
 of Locke, **8.38–41**
 in plan for dictionary, **8.295**
 its prescientific stage, **8.xxxviii**, 36
 universal, **8.279**
See also Peirce, Charles S.
- Biology, **1.xix**, xxii, **4.379**, 380, **8.103**, 243
 categories in, **8.109–10**
 in classification of sciences, **8.275**, 447, 448
 its dislike for formal abstractions, **6.451**
 and economy, **3.xxxvi**
 its erratic phenomena, **8.413**
 and Malthusianism, **3.xxxvi**
 in plan for dictionary, **8.294**
 statistical method in, **3.244**, 340
 triad in, **6.1**, 166, 199–202, 453
 its unfortunate tendency, **6.450**
- Biometry, **8.lxvn.74**
- Bion of Borys, **6.418**
- Biot, Jean Baptiste
 his measurements of gravity, **4.xxx**, 148–51
 his pendulum experiments, **4.82–83**, 357, 563
Recueil d'observations géodésiques, **4.565**, 585
- Bird, Isabella L., **6.432**
- Bismarck, Otto von, **1.456**, **5.26**, 32, 36, **8.260**, 278, 279, 441, 639
- Bitangent
 in plane curves, **6.373–74**
- Blair, Henry Wayne
 his comparator, **6.350**, 351, 486
- Blake, William, **8.277**, 278
- Blanc, Louis, **8.277**
- Blanc, Marie
 Peirce's assault on, **6.lxx**
- Blank
 absolute, **6.214**
 surrounding relative terms, **6.175**
- Bleaching process, **8.lxxxvi**, lxxxvii, xci, 406, 411–12
- Bliss
 Juliette's dog, **6.lxxi**
- Blundeville, Thomas, **5.396**, 414, **6.7**, 417
- Bocardo, **8.6**, 363
 and induction, **3.328**, 329
- Boccaccio, Giovanni, **5.26**, 32, **8.260**
- Bôcher, Maxime, **8.500**
- Böckh, August, **8.349**, 466, 467
 school of Boeckh, **8.351**, 467
- Bode, Johann Elert, **3.389**
 Bode's law, **4.438**, 589
- Body
 acted upon by the mind, **6.1**, 188, 390–91
 connection with soul, **8.14**, 15, 22, 124
 connection with soul explained in
 hyperbolic philosophy, **6.393**
 connection with soul inexplicable in
 Cartesianism, **6.391**
 definition of, **1.61**
 mind's agent of communication, **6.392**
 and soul, **1.61**
 unusual motion of, **8.152**
See also Matter; Solid
- Boerhaave, Hermann, **1.52**, 360
- Boethius, **2.108**, 116, 195*n*, 312, 313, 319, 331, 5.413, 459
- Böhme, Jakob, **2.148**, **8.135**, 392
- Boileau, Nicolas, **8.281**
- Bolívar, Simón, **5.26**, 32, 36, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 104–6, **8.260**
- Boltzmann, Ludwig, **8.204**, 418
 Boltzmann's constant, **8.405**
- Bolyai, Farkas, **8.lxvii**, lxviii*n.77*, lxx, 274, 366, 382
- Bolzano, Bernard, **8.379**
- Bonaventura, St., **8.268**
- Bond, George Phillips
 his chronometer, **5.4**, 13–14, 21
- Book Chat, **8.xliv**
- Boole, George, **1.163**, 189–99 *passim*, 223–39
passim, 348, 404–5, **2.17**, 18, 20, 87, 311, 375, 444, **4.xliv**, 27, 28, 33, 34, 171, 174*n*, 183,

Boole, George (*continued*)

184*n*, 590, 5.26, 32, 179*n*, 6.29, 426, 8.xxx, 30, 63, 69, 367, 379
 on addition, 2.368, 369, 4.187
 his algebra, 4.xlvii, xlviii, 21, 265, 381, 406–7, 478, 479, 481, 482, 484, 493, 500, 508, 509, 5.107, 119, 167–68, 174–75, 177–78, 361–71, 372, 381–87
 his calculus, 2.xlii, xlvi, 12, 21–23, 60, 68, 69, 88, 90, 93, 298, 379–81, 385, 4.218, 458, 465, 466, 488, 5.109, 114
 on equality, 2.366
 on hypothetical proposition, 2.421–23
 his influence on “Description of a Notation for the Logic of Relatives,” 2.xlii–xliii, xlvi–xlvi
 logical algebra of, 2.xxxiii–xlii, xlvi, 359–60, 384, 387–88
 logic of, 4.xli
 on multiplication, 4.454
 on non-relative terms, 4.182*n*, 188, 190–91
 on particular proposition, 2.421–23
 on probability, 2.19, 100, 376, 4.442–43, 488
 on the universe of discourse, 4.450, 569
Calculus of Finite Differences, 4.lv
Laws of Thought, 1.223, 405, 2.xxviii, xxx, 267*n*, 4.406, 443*n*, 568, 569, 572, 573, 575, 577, 587, 589, 590, 5.436
Mathematical Analysis of Logic, 4.182*n*
 See also Algebra; Boolean algebra; Calculus; Universal

Boolean algebra, 6.1–8, 29, 50–53, 54–57, 58–60, 8.xxx, xliii, 63–68, 69–77
 applied to logic of number, 6.156–63
 as collection of monads, 6.268–70
 two-valued, 6.166
 usefulness of its sign system, 6.8, 50–51
 See also Algebra; Correspondence course; Exercise, logical

“Boolean Algebra” (sel. 17), 8.552–54
 “Boolean Algebra. First Lecture” (sel. 18), 8.xxx, 555–62
 “A Boolean Algebra with One Constant” (item 23), 4.xlvii

Boolean calculus, 8.xxx, 55, 71
 Boote, George, 3.6
 Bopp, Franz, 5.32, 8.260, 639
 Borchardt, Carl, 8.393

Borchardt’s Journal, 8.139, 393

Borda, Jean Charles
 his measurements of gravity, 4.xxx, 148–51
 his pendulum experiments, 4.82–83, 357, 563

Bordman, Eliza Henderson (Mrs. Otis), 8.46, 375

Borromeo, Carlo, St., 5.26, 8.lxvii.75, 260

Bosanquet, Bernard, 8.85, 381

Boscovich, Roger Joseph, 8.404
 his atomic conception, 8.167
 Boscovichian points, 8.lxx, lxxi.85, 285, 404, 451, 650
 his law of oscillation, 8.404

Bossuet, Jacques Bénigne, 5.26, 32, 38, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96–103, 104–6, 8.260

Boston, 8.46

Boston Radical Club, 4.xx

Boswell, Terry, 5.451

Botany, 8.173
 classification in, 5.359

Botticelli, Sandro, 5.26

Bouguer, Pierre, 4.370*n*, 372
 “De la manière de déterminer,” 4.585

Boundary
 color of, 8.145–46

Bourne, Henry Richard Fox, 8.372

Bowditch, Henry P., 6.434

Bowen, Francis, 1.26*n*, 455
A Treatise on Logic, 3.4

Boyden, Uriah Atherton, 6.385, 494

Boyle, Robert, 5.32, 37, 8.lxi, 243, 260, 279, 347, 432, 441, 465, 639
 Boyle’s law, 8.100, 204, 384
 law of Boyle and Charles, 4.551, 594

Brace
 in logical algebra, 8.69

Bracket
 in logical algebra, 8.63, 69

Bradley, Francis Herbert, 8.85, 381

Bradley, James, 3.55, 125

Brahe, Tycho, 3.182, 243, 339, 389, 474, 4.489, 5.26, 32, 37, 8.248, 260, 287, 288, 289, 290, 452, 465, 652

Brain, 8.14, 148, 154, 182, 233, 281, 380
 and cerebral habit, 4.164
 of genius, 8.lxvii, 282–83, 449
 -matter, 8.123

- Brain (*continued*)
 mind as function of, 3.45
 and nature of ideas, 3.66
 and operation of the nervous system, 4.38–39, 42–43, 45–46, 163–64, 422, 476
 organ of reason, 6.190
 and thinking, 3.58
- Bramhall, John, 5.400
- Brandis, Johannes, 8.467
- Braude, Stephen E., 6.xlin.18, 436
- Breadth
 essential, 3.100–102
 informed, 3.100
 substantial, 3.100, 102
 of a term, 3.88–89, 98–102
See also Denotation; Depth; Extension
- Break
 as breach of continuity, 8.134
- Breguet, Louis, 5.262, 426
 Maison Breguet, 4.88, 159, 563, 5.13, 426
- Bremiker, Karl
Logarithmorum Sex Decimalium Nova Tabula, 3.126
- Brennen, Alfred L., 6.xxxviii
- Brent, Joseph L., 6.xxvii.2, xxviii.3, xxxviii.11, xxxviii.13, xxxix, xxxixn.14, xxxixn.16, lxi.42, lxx, lxxn.52, lxxvii.56, 8.lxxviii.96, 433
Charles Sanders Peirce: A Life, 5.xixn, xxi, xxxiv
- Breteuil, pavilion de, 6.302, 481
- Brewers, E. Cobham, 8.442
- Brewster, David, 2.285
- “Brief Description of... Relatives” (item 43), 4.lii–iv, 321
- Brightness
 apparent, 3.183–84, 476–77
 intrinsic, 3.183–84, 476–77, 482–83
 of light, 3.382, 384
 relative, 3.183–84, 388–91
- British Association for the Advancement of Science, 3.1, 5.xxvii
- British philosophy, 2.302–3, 307, 310–11, 463–64, 475, 487
- Broad, Charlie Dunbar (C. D.), 6.426
- Brodie, Benjamin Collins, 2.xxxiii
- Brown, George William, 4.lvii, lxiv
- Brown, John Wesley, Rev., 8.lxxvi
- Brown, Robert
 Brownist School, 1.494
- Brown, Thomas, 2.336, 3.2, 5.454
Lectures on the Human Mind, 2.485
- Brown & Sharpe, 5.150
- Browne, Edward (Dr. Brown), 8.299, 456
- Browne, Sir Thomas, 6.440
- Browne, Thomas, Sir, 8.456
- Browning, Elizabeth, 1.23
- Browning, Elizabeth Barrett, 8.277
- Browning, Robert, 1.20, 23, 5.26, 32, 35, 6.liii, 8.260, 277, 441, 639
- Bruce, Adam T., 4.lxii, lxvii
- Bruce, James, 5.26
- Bruhns, Karl Christian
 on density of the pendulum, 4.108, 133, 135
 his pendulum experiments, 4.84, 516–17
 “Bestimmung der Länge,” 4.563, 564
 “Rapport,” 4.593
- Brunel, Marc Isambard, 2.457
- Brunner Brothers, 4.82, 563
- Bruno, Giordano, 5.26, 8.260, 441
- Brush, Charles F.
 Brush light, 6.246, 470
- Brush, George, 2.xxiv
- Bryant, William Cullen
 “The Battle-Field,” 3.16
- Buber, Martin, 1.xxviii
- Buch, Leopold von, 5.26
- Buckle, Henry Thomas, 8.190, 412
- Buckley, Arabella Burton, 8.lxxxiv, 345, 347, 465, 675
- Buddha, 5.26, 32, 38, 8.260, 268, 441, 638, 640
- Buffier, Claude
 definition of logic, 1.458
- Buffon, Comte de, 5.26
- Buhl, Ludwig von, 8.280, 449
- Bullokar, William, 1.119, 122
- Bundle
 of habits, 6.210
- Bunsen, Robert Wilhelm, 2.285, 286
- Bureau of Standards, 3.xxi
- Burgersdicius (Burgersdijk), 2.109, 113, 120, 5.399, 401, 406, 413, 414, 419
 on perfection, 2.112, 121
 on various senses of absolute, 2.110–12
Institutionum logicarum, 2.111
Institutionum metaphysicarum, 2.112, 120

- Buridan, John (Joannes Buridanus), **3.3**, **4.487**,
591–92
- Burke, Edmund, **4.577**, **5.26**
- Burks, Alice, **6.xxxvn.9**
- Burks, Arthur W., **6.xxxvn.9**, **8.528**, **528n.3**, 530
- Burnet, Thomas, **2.71n**
- Burnham, Sherburne Wesley, **4.161**, 568
- Burns, Robert, **5.26**, 32, 35, **8.260**, 279
- Burritt, Elijah Hinsdale, **3.2**
- Burt, Benjamin C., **4.li**
- Burton, Richard, **8.416**
- Busby, Richard, **8.39**
- Bushnell, Horace, **1.455**
- Butler, Archer, **2.482**
- Butler, Charles, **1.119–20**, 127, **137n**, **138n**
- Butler, George B., **6.xxxviii**, **lxxii**, **lxxiii**
- Butler, Joseph, **6.18**
- Butler, Nicholas Murray, **8.lxviii.78**
- Byrne, John (instrument maker), **4.273**, 578, **5.9**
- Byron, Lord, **5.26**, 32, 35, **8.260**
- C**
- Cabot, James Elliott, **2.xxiv**
- Cadwallader, Thomas C., **5.xxvn**
- Caesar, Julius, **5.27**, 32, 36, **8.260**, 639
- Cain, **6.177**
- Caird, Edward, **5.403**, **6.499**, **8.xxxii–xxxiii**
- Cajetan (Thomas de Vio), **2.72**, 106
- Cajori, Florian, **8.489**
- Calculating machines, **2.457–58**
- Calculus
vs. algebra, **5.363**, 371, 373, 464
applied to economy, **3.109–10**
Boolean, **5.109**, 114, **8.55**, 71
with Boolean part, **5.114**, 178, 183–85, 189,
191, 195, 200, 201, 209, 212, 214
of chances, **3.278–79**
differential, **5.148**, **6.180**, **8.138**, 269
of extension, **3.238–39**
of finite differences, **5.403**
implicational, **5.440**
infinitesimal, **5.345**
of logic, **8.74**, 222
logical, **3.278**
propositional, **5.xxvi**, 440
with quantifiers, **5.181–85**
See also Algebra
- Calderón de la Barca, Pedro, **5.27**, 32, 35, **8.260**,
441
- Calderoni, Mario, **1.xxvi**
- Calderwood, Henry, **2.109**
- Calvin, John, **5.27**, 32, 38, **6.387**, **387n.1**, 497,
8.lxvi, 260, 268, 279, 639
- Cambridge, **8.46**, 135
H. F. Walling’s 1854 map of, **8.45 map**
Peirce’s May 1892 trip to, **8.lxxx**, **lxxxi**
- Cambridge Astronomical Society, **1.xvii**
- Cambridge Metaphysical Club, **4.xxxvi**, xli, **8.lvii**
- Cambridge Scientific Club, **1.xvii**, **2.xxxv**
- Camera-lucida, **8.53**
- Camoëns, Luiz Vaz de, **5.27**, 32, 35, **8.260**, 279,
441, 639
- Campanella, Tommaso, **8.268**
- Campbell, Thomas, **8.277**, 278
- Camp Clay, **6.220**, 243, 465
- Can
sense of, **6.214**
- Candolle, Alphonse de, **4.152**
Histoire des sciences, **4.566**
- Canova, Antonio, **5.27**, 35, **8.lxvn.75**, 260, 638,
639, 640
- Cantor, Georg, **5.xx**, xlv, 453, **6.470–71**, **8.lxxv**,
17, 130, 132, 134, 139, 142, **142n.1**, 364, 390,
393, 394
on continuity, **8.143–44**, 391, 395
his continuum hypothesis, **8.391**
his limited types of infinity, **6.251**
- Cape Sabine, **6.xxx**, **xxxiii**, 464, 465
- Card game, **8.1–12**, 363
illustrating, **6.192–93**
Murner’s pack, **8.xxix**, 1
as reasoning exercise, **6.46–49**
shuffling instructions, **6.192n.1**
- Cardinal number, **5.442**
- Card trick, **8.9–12**, 363
- Carleton, Henry
on the reconciliation of immortality and
responsibility, **1.494**
Liberty and Necessity, **1.494**
- Carlyle, Thomas, **5.27**, **8.lxvn.75**, 260, 278, 279,
639
on transcendental philosophy, **1.241**
- Carnegie Institution
Peirce’s grant application to, **4.588**
- Carnot, Nicolas Léonard Sadi, **6.385**, 494
- Carnot, Sadi, **8.268**
- Carter, George, **4.580**

- Cartesian dualism, 2.480, 482
See also Descartes, René
- Cartesianism, 3.259, 357, 8.105, 380
 and cognizability, 2.238
 criticism of, 2.xxxviii, xl, 212–13
 and extension and comprehension, 2.71
 fundamental principles of, 2.211–13
 as method of philosophizing, 2.356
 vs. scholasticism, 2.211–13
See also Descartes, René; Dualism
- Carus, Paul, 4.lix, 6.lix, lxxxiv, 442, 454, 8.xxxiii, xxxiv, xxxv, xxxix, xlv, liii, liv, livn.46, livn.47, livn.48, livn.49, livn.50, lxi, lxxiii, lxxvii, lxxix, lxxx, lxxxi, lxxxii, lxxxv, lxxxvii, lxxxviii, xciv, 43, 192*n*.2, 368, 369, 370, 373, 374, 386, 389, 394, 401, 409, 412, 414, 525, 528, 576, 579–80, 594, 596, 605–6, 658
 Lockian, 8.33, 34
 quoted, 8.43, 190, 201, 368, 374, 417, 595
Fundamental Problems, 8.xxxvii–xxxviii, 33–35, 43, 368–70, 543
- Casanova, Francesco, 8.441, 639
- Casanova, Giovanni Giacomo, 6.liii, 8.260, 441
- Case. *See* Rule, Case, Result
- Casella, Louis P., 4.274, 578
- Catalan, Eugène Charles
 Catalan numbers, 8.421, 424
- “A Catalogue of Stars” (P 159), 4.xxx
- Catalogue of Stars of the British Association for the Advancement of Science, The, 3.1
- Categories, 1.xxiv–vi, xxviii–xxx, xxxiv, 4, 8, 15, 38–39, 45–46, 75–76, 91–94, 115–16, 147, 153, 174, 307, 331–32, 334–37, 351, 474–79, 504, 520, 525, 8.xcv
 applied to analysis of protoplasm, 8.399–400
 of Aristotle, 8.85
 category-concepts in logic, 8.85, 109
 cenopythagorean, 8.399
 concretely stated, 8.86
 degeneracy of, 6.xlix, 171, 176–79, 442
 formulaic definitions of, 6.170, 441
 ingredients of knowledge, 6.182
 of Kant, 8.17, 85
 linguistic manifestation of, 6.170
 of mental phenomena, 8.95–97, 103–5, 109
 no more than three fundamental -, 6.xlix, 175
 not definite notions, 6.169
 not sensations, 6.182
 in presocratic philosophy, 6.444–46
 psychological origin of, 6.182–83
 uncounted categorial numerals, 6.170
See also Aristotle; Concept; Conception; First (Firstness); Fourthness; Hegel; I, It, Thou; Kant, Immanuel; One, two, three; Quality; Quantity; Reduction thesis; Relation; Representation; Second (Secondness); Third (Thirdness); Triad
- Category, 2.xliii
 being, 2.54–55
 of consciousness, 5.246–47
 first, second, third, 5.xxxv, 236–40, 245, 293, 294–95, 298–301, 302–8, 446
 as foundation for logic, 5.xxxv–xxxvi, 235–40, 242–45
 as foundation for Peirce’s system, 5.xi
 and functions of judgment, 5.236*n*
 Hegel’s study of, 5.237, 302
 and inference, 5.240
 as innate ideas, 5.245
 of Kant, 5.235–37, 448
 and nerve functions, 5.247
 in physiology, 5.247
 precission of, 5.238
 in psychology, 5.245–47
 quality, 2.xxviii, xxxi, 54–55
 of reasoning, 5.165, 235, 245
 relation, 2.xxviii, xxxi, 54–55
 representation, 2.54–55
 revival of Peirce’s theory, 5.xxxix, xlvi, 448
 substance, 2.54–55
 universal applicability of, 3.61
See also Conception; Degeneracy; First (Firstness); Reduction thesis; Second; Third
- Catherine II, 8.260, 639
- Catholic Church, 8.241
- Cauchy, Augustin Louis, 4.230, 556, 576, 590, 5.27, 32, 37, 8.17, 145, 260, 268, 364, 396, 639
- Causality, 1.4, 38, 48, 60, 531, 2.237, 4.382
 axiomatic nature of, 4.546–47
 a category of the It, 1.530
 discovery of by hypothesis, 4.423
 of events, 6.206–7
 of events (in Aristotle), 8.111
 ground of, 1.223
 Hume, Locke, and Reid on, 1.240

- Causality (*continued*)
 and induction, 1.223
 and inference, 4.252
 and instinctive belief, 6.204
 Kant on, 1.240, 245
 law of, 1.223
 real causal connection, 4.250
- Causation
 between ideas, 3.102
 and consciousness, 3.74–75
 and existence of things, 3.45
 final, 8.lxxiv, 347
 final cause, 3.8
 involved in cognition, 3.80
 law of, 1.220–22
 mechanical, 5.296, 8.xxxix, 118, 236
 necessary, 8.153
 operative in the mind, 8.123
 physical and psychical, 8.15–16
 presupposing similarity, 3.73
 principle of, 3.317
 principle of universal 115, 8.119, 121
 and probability, 3.281
 reasoning from effect to cause, 3.332
 representation based on, 3.62–63, 66, 68
 sequence of, 1.44
 sign based on, 3.65, 67, 77, 80, 82
 supposed inexact, 8.123
 and thought, 3.78
See also Connection
- Cause, 2.471, 482, 5.419, 445
 called chance when unknown, 8.120
 its crude mechanical conception, 8.408
 and effect, 1.44, 5.236, 305, 413–14, 445
 efficient, 8.111
 and emanative effect, 5.399
 final, 1.146, 8.lxxxv, 111, 347, 389
 first, 1.91
 infinitesimal, 5.123
 mechanical, 8.192
See also Vera causa
- Cause and effect
 duality of, 6.172
 real connection of, 6.443
See also Determinism
- Causelessness, 8.114
- Cavour, Camillo Benso di, 5.27, 32, 36, 8.260, 441, 639
- Caxton, William, 5.416
- Cayley, Arthur, 4.xxxix, liii, lxvii, 215, 5.251, 8.lxviii.77, 173, 225 *caption*, 274, 364, 645
 on associative algebra, 4.228–29
 on the mouse-trap problem, 4.257
 on negation, 4.216–17
 his theory of trees, 8.xlviii–xlix, xlix*n*.39, 407, 424, 613
 “A Memoir on the Theory of Matrices,” 4.312, 333
 “A Problem in Permutations,” 4.577
 “Inaugural Address,” 4.lxvii
 “Note on the Calculus,” 4.574
- Cecil, Robert, 5.27
- Celarent, 8.9, 10, 12, 363, 537
- Cellérier, Charles, 3.xxvi, 4.516, 516*n*, 560, 593, 6.486
- Cellini, Benvenuto, 5.27, 32, 35, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96–103, 104–6, 8.260, 441
- Census of 1870
 Statistical Atlas, 4.589
- Census of Hallucinations, 6.434
- Century
 economical factor, 8.xcii
 nineteenth, 8.xcii, 110, 186, 188, 189
 twentieth, 8.188, 386
- Century Club, 6.lxxi, lxxii, lxxiv, 8.lxxvi, 657
 letterhead, 8.276 *illus.*, 645 *illus.*
- Century Company, 5.xliv, 8.xxvi, xxvii, xlii, xlviii, lii
- Century Dictionary*, 1.xxix, 5.xxi, xxvii, xl, xli, xliii–xliv, xlv, 465, 8.xxxviii.17, xxxviii, xliii, liii, lxix, lxxi, lxxvii, 119, 121, 178, 276
caption, 286, 389, 452, 453, 546, 547, 622
 its impact on Peirce, 6.lvii–lviii
 Newcomb’s criticism of, 6.lix
 Peirce’s work on, 6.xxvii, xxxiv, xxxix, xliii, xlvii, liii–liv, lvi, lvii*n*.37, 8.xxvi, xxvii, xxviii, xlii–xliii, xliii*n*.27, xlv, xlvi
- Century Magazine*, 5.xlviii, 8.lxxi, 656, 657, 661
 “The Century’s Great Men of Science” (P 779), 5.xxiv
- Cerberus
 sop to, 8.186
- Cerebration
 laws of, 4.553
 and thinking, 4.xlv, li, 38, 42, 45, 163–64, 476
See also Thought

- Certainty, 5.226
 absolute, 3.293–94, 5.249–50, 6.103, 8.107
 of propositions, 5.241
 of “twice two is four,” 6.432
See also Doubt
- Certitude
 human, 6.74
- Cervantes, Miguel de, 5.27, 32, 35, 37, 8.260
- Chambers, George Frederick, 8.lxi, 438–39
 review of his *Pictorial Astronomy*, 8.248–50, 629–30, 651
- Champollion, Jean-François, 5.27, 32, 37, 8.260, 279, 639
- Chance, 1.417, 421, 4.lv, lxvii, lxix, 552, 8.xxxix, xl, 17, 117
 as absence of cause, 4.547
 absolute, 3.293, 4.xlvi, lxix, lxx, 549, 6.167, 204, 440, 8.xciv, xcv, 21, 101, 111, 119, 121, 135, 165, 194, 365
 arbitrary determination, 8.118
 of an argument, 3.293, 294
 Aristotle on, 4.547
 begetting order, 8.liv, 190
 calculation of, 3.286–89, 294
 calculus of chances, 3.278–79
 chance-world, 3.30812
 chaos, 8.lxxxix, 179
 of a consequence, 3.293
 in Darwinian evolution, 8.xciii, 102, 190, 244
 and diversity, 8.120, 150
 doctrine of, 5.325
 doctrine of chances, 3.281–82, 283
 efficacy of, 5.xlv
 of event, 3.293
 and evolution, 4.548–49
 evolution from, 5.xxxvii, xxxviii–xxxix, 293
 its explanatory power, 8.liii, 125
 as first, 8.110
 first element active in the world, 6.xlix, l, lxxxiii, 208
 first element in natural selection, 6.453
 and firstness, 5.293, 300, 305
 fortuitous deviation of atoms, 6.204
 and freedom, 4.552
 and game, 4.549–50, 553
 germ of being, 8.xliv
 hypothesis of chance-spontaneity, 8.xc, 124, 181, 408
 inconceivable, 8.119, 121
 indefinite, 3.296
 and indeterminacy, 4.552
 infinite, 3.293–94
 influencing increase of reproductive capacity, 6.200
 inverse, 4.444
 and law, 4.lxx, 551–52
 and law of high numbers, 8.21
 law’s origin, 6.xlviii, 207
 leading to determinate end, 6.450
 and the long run, 4.550–51
 making room for generalization, 8.124
 in nervous discharge, 6.191
 as nonexistence, 8.xliv
 and occurrence of events, 5.xxxvi, 261
 operation of, 4.411
 origin of fruitful idea, 8.19
 outward aspect of feeling, 8.xc, 181
 in particular judgment, 5.236*n*
 principle of, 6.202
a priori arguments against, 8.119, 121
 vs. probability, 3.293
 and probability, 4.380, 382, 547, 548–50, 551–52
 pure, 6.xlvii, 8.110, 387
 real, 8.liii, 21, 118
 relative, 4.548, 549
 spontaneous, 8.111
 and sporting, 6.l, 8.102
 and teleology, 5.xlvi, 229, 451
 theory of, 4.lii
 in throw of dice, 8.120
 and uniformity, 4.445
 unintelligible, 8.119
See also Probability; Statistics
- Chances
 calculation of, 6.254
 its doctrine not a branch of mathematics, 6.254
 doctrine of, 6.18, 25, 29, 107, 128, 255, 419, 8.244
 game of, 6.256–57
See also Probabilities; Probabilities, theory of; Probability; Statistics
- Chances, doctrine of, 2.98
- Chandler, Charles and William (brothers), 8.650
- Chandler, Seth C., 8.lix, 492

- Change
 requiring synthetic consciousness, **6.214**
 and time, **8.147**
- Channing, William, **1.455**
- Chaos, **8.xxxvii**, 107
 chance-medley of, **8.lxxxix**, 179
 initial condition, **8.xcv**
 as mere indeterminacy, **6.209**
 multitude of unrelated feelings, **8.387**
 as nothingness, **8.386**
 primeval, **8.xcv**, 181
 of unpersonalized feeling, **8.xxxix**, 110
- Chapman, Daniel C., **4.11**, 560, 577, **6.221**, 286, 466, 479
- Chapman, John Jay, **8.lixn.63**
- Character, **1.6**
 in categorical proposition, **5.361**
 of collection, **8.55–56**
 common, **2.2**, 3, 48, 50, 81, 82, 85
 complex, **5.380**
 as connotation, **2.1**
 as consequent, **5.360**
 the ground of being, **1.352**
 independent, **3.311–12**
 of individual in Boolean logic, **5.177**
 known by icon, **5.380**
 negative and positive, **3.308n**, 309–11
 number as, **8.55–56**
 object in relation, **8.55**
 personal, **8.155**
 predesignated in sampling, **8.116**
 real, **3.102**
 and relation, **5.162**
 relative, **5.244**
 its three kinds in logic, **5.243–44**
See also Attribute; Predicate; Quality
- Charity
 Christian, **5.230**
 its principle scientifically supported, **8.342**
- Charlemagne, **5.27**, 32, 36, **8.260**, 268, 278, 279, 639
- Charlemagne, empire of, **1.106**
- Charles, Jacques
 law of, **8.204**, 418
 law of Boyle and Charles, **4.551**, 594
- Charles, law of, **6.301**
- Charles II, **8.39**
- Charles Martel, **5.27**, 32, 36, **8.260**, 441
- Charles V, **5.27**, 32, 36, **8.260**
- Charles XII, **5.27**, 32, 36, **8.260**, 268, 639
- Chartiludium, **8.1**, 363
- Chase, Pliny Earle
Intellectual Symbolism, **1.115**
- Chasles, Michel, **5.27**, 32, 37, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 104–6, **8.260**, 639
- Chatterton, Thomas, **8.260**, 639
- Chaucer, Geoffrey, **1.129**, **5.27**, 32, 35, 413, **8.260**, 418, 442
- Chauvenet, William
A Manual of Spherical and Practical Astronomy, **3.125**
- Chauvin, Etienne, **2.109**, 110, 111, 118
Lexicon philosophicum, **2.72n**, 94, 157, 219n
- Chemical
 analysis, **2.285**
 decomposition of bodies, **2.176–77**
See also Elements, chemical
- Chemical News, **2.282**, **8.650**
- Chemistry, **1.xvii–xviii**, xix, xx, xxi, xxii, xxiii, **4.379**, 380, **8.159**
 and alchemy, **5.324**
 chemical analysis, **4.241**
 chemical composition of protoplasm, **6.193**, 195, 197
 chemical dissociation, **8.172**, 406
 chemical engineering, **1.xxi**
 in classification of sciences, **8.275**, 447, 448, 654
 as a classificatory science, **3.276**
 discoveries in, **4.73–74**
 electrolytic experiments, **8.406**, 411–12
 error in chemical analysis, **3.126**
 fractures and junctions in, **4.391**
 history of, **1.2**
 inductive inference in, **4.489**
 laws of, **4.551**
 logic of, **2.442**
 method of, **3.243–44**, 276, 340
 methods of, **5.381**
 objects of chemical study, **1.148**
 periodical law, **8.lxix–lxx**, 204, 284–85, 450–51, 649–50
 vs. physics, **8.448**
 in plan for dictionary, **8.294**, 654
 source of logical exercise, **8.67–68**
 specific gravities, **4.435–38**
 table of elements, **5.359**, 393–94, 468

- Chemistry (*continued*)
 thermo-, **8.172**
 and triadicity, **5.306–7, 455**
 ultimate premises of, **2.176–77**
 views of, **1.50–56**
See also Elements
- Chicago, **8.33, 35**
 real American city, **8.lxxix**
- Chicago University, **8.lxxixn.100**
 Peirce's vying for position at, **8.lxxix–lxxx, lxxxi–lxxxii**
- Chicago World's Fair, **8.606**
- Child
 development of self-consciousness, **2.167–69, 201–3**
 language acquisition, **2.168, 196, 202**
 perception in, **2.167–69, 201–2**
- Child, Francis J., **1.xxvii**
- Chopin, Frédéric, **5.27, 35, 8.lxvn.75, 261, 639**
- Christendom
 its venerable creed, **6.64**
- Christianism. *See* Theology, Christian
- Christianity, **2.261n**
 age of, **1.105**
 anti-Christian teachings of science, **8.347**
 and civilization, **1.107–14**
 and Darwinianism, **8.194**
 its disintegration, **8.342, 409**
 dunce-religion, **8.418**
 early, **8.418**
 essence of, **8.lxxvi**
 its history the largest example of tychasm, **8.198–99**
 Peirce's philosophy in harmony with, **8.389**
 return to its principle, **8.lxxiv, lxxx, 126**
 its thaumaturgic and spiritual elements, **6.497**
The Christian Register, **6.xxxiv**
The Christian Union, **8.li, 429, 430**
- Christlieb, Theodor, **2.316**
- Chromatics, **4.48–49**
- Chronometer, **6.460**
 Bond, **5.4, 13–14, 21**
 Breguet, **5.13**
 error of rate, **6.279**
 experiments with, **3.135–37**
 Fauth, **6.345, 477, 485**
 Frodsham, **5.13–14, 21**
 Frodsham 2490 damaged, **6.218, 464**
 Hutton, **5.4, 13–14, 21**
 mean time, **6.342**
 Negus, **5.4, 13, 21**
 Negus 1589, **6.347, 486**
 sidereal time, **6.347**
See also Clock; Pendulum
- Chronoscope
 Hipp's, **3.133–35, 136**
 Wheatstone's, **3.133**
- Chrysippus, **8.277, 278**
- Chrysostom, John, **5.27, 32, 38, 8.261**
- Church
 allegiance to church creed, **8.li, 240–41, 429–30**
 anti-Christian spirit within, **8.342, 409, 410**
 authority of, **2.465, 3.272, 371**
 Catholic, **2.211, 313, 434, 465**
 Catholic and Protestant, **3.265–66, 364**
 Fathers of, **2.313**
 vs. laboratory, **8.lxxxiv**
 and personality, **8.xc–xci, 183**
 her philosophical blunder, **8.410**
 political role of, **2.465**
 Presbyterian, **8.398, 430, 671**
 protestant, **6.497**
 and redemption, **2.434**
 and settlement of opinion, **3.18–19**
 St. Thomas's Episcopal Church, **8.lxxvi, lxxvii**
See also Christianity; Persecution; Religion; Theology
- Church, Alonzo, **5.439, 6.xxxvn.9**
- Cicero, Marcus Tullius, **1.163, 5.27, 32, 35, 417, 480, 8.261**
Commonplaces, **2.475**
- Cid, The, **5.27, 32, 36, 8.261, 442**
- Circle, **8.91, 108, 142**
 of the categories, **1.115**
 definition of, **6.419–20**
 galactic, **8.229, 230**
 great, **8.229**
 and planetary motion, **8.286–87**
 and telltale row, **8.226, 227**
- Circuit
 of a term, **2.74, 77**
See also Extension
- Circulus in definiendo*, **8.128**

Civilization

condition for, **8.lxvi**

history of, **1.101–14**

Civil War, **1.xx**Clairaut's Theorem, **6.479**Clark, Alvan and Sons, **4.273, 578**Clark, Francis E., **8.409**Clark, James J., **6.463**Clarke, Alexander Ross, **4.362, 6.350, 353, 480, 486, 487**

his pendulum experiments, **4.212, 356**

Geodesy, **4.212, 356, 534, 574**

Clarke, Mary Cowden, **1.23**Clark University, **8.xxxv, 539**Class, **1.56, 151, 191, 193, 198, 440, 442, 499, 510–11, 2.xlii, xlvi, 14, 74, 8.186**

artificial, **1.416, 418**

class-name, **5.168, 338**

collective and distributive class-names, **4.210**

in collective sense, **5.185–86**

in De Morgan's syllogistics, **5.353–54**

denoted by one term, **1.462**

in distributive sense, **5.361**

existence of, **5.208, 441**

extension and intension of, **1.526**

finite, **4.267, 431–32, 5.206–7, 8.133, 134**

general characters of, **1.426, 428**

infinite, **4.301, 431–32, 5.206, 8.134**

instance of, **8.115**

as a limited universe, **3.115–16**

name of, **1.461**

natural, **1.416–19, 2.443, 467, 4.488**

number of, **5.187**

vs. relation, **2.xliv–vi, xlvii**

of relations, **6.363**

in second intentional logic, **5.186**

subdivision of, **1.486**

subsumption of, **4.23**

subsumption under, **3.329**

sum of, **1.346**

and uniformity of nature, **1.419**

unity, **2.15, 60, 69, 89, 375, 381, 383–87, 404, 424**

universal, **2.366**

universal characters in, **1.419**

and universe of discourse, **4.345–46**

zero, **2.14, 60, 69, 89, 369, 381–87, 401, 404, 423**

See also Collection; Set

Classification, **1.145**

of arguments, **3.323**

of Aristotle, **5.359–60**

categories of, **1.147**

classificatory sciences, **3.276, 338**

of human faculties, **1.8**

of inferences, **3.326, 332, 336–38**

laws of, **1.329**

method of, **3.277**

natural, **1.267–68, 420, 427–28**

of natural objects, **3.320**

presupposed in inference, **3.305**

of science, **1.487**

of the sciences, **1.3**

of sensations, **3.236**

of stars, **3.388, 407**

of thinking, **1.394**

zoological, **1.9**

in zoology and botany, **5.359**

Classification of sciences, **1.487, 8.lxviii–lxix,**

lxviii.80, lxxi, 275, 276, 276 *illus.*, 366, 447–48, 645–46

Claude Lorraine, **8.lxv, lxvn.75, 261, 639, 640**

Clause

in algebra of the copula, **8.210, 211**

Clausius, Rudolf Julius Emanuel, **3.244, 340,**

5.27, 6.385, 493–94, 8.172*n*.7, 190, 204, 204*n*.5, 406, 412, 418

on entropy, **5.405**

his law of the virial, **8.168, 399, 405**

Claw

basis for calculus of logic, **8.74**

Peirce's use of, **5.434, 435, 440, 459**

sign of copula, **8.72, 75, 208, 210, 212, 217, 222, 252, 255, 421, 440, 553, 556**

sign of illation, **6.5**

sign of inclusion, **6.263**

See also Copula; Inclusion, sign of;

Ordering

Clay, Edmund R., **8.xxxii, 392**Clay, Henri, **6.465**Cleantes, **8.388**

Clear

concept, **2.342–44**

conviction, **2.212**

and distinct, **2.71–72**

Clearness

of apprehension, **3.xxix, 258, 260, 266, 356,**

Clearness (*continued*)

- 358, 365
- of concept, 3.257–58, 260, 355–56
- as familiarity, 3.271, 370
- of idea, 3.258–60, 271, 276, 355–58, 370
- of thought, 3.264, 362
- See also* Distinctness; Obscurity
- Cledenning, John, 8.lvn.53, lviii.60, lviii.61, 433
- Cleopatra, 5.27, 8.261, 639
- Cleveland, Grover, 5.xxix, 6.xxv, xxvii, xxxi, xlv
- Clifford, William Kingdon, 2.xxx, xxxiii, xxxiv, 4.xxxvii, 591, 8.xxxi, 78, 174, 274, 369, 380, 407, 424, 644
 - on geometry, 5.254–56
 - on nonions, 4.470
 - on spontaneous generation, 4.547–48
 - his system of biquaternions, 4.231
 - “Cosmic Emotion,” 4.594
 - “On an Unexplained Contradiction in Geometry,” 2.xxxiv
 - “Preliminary Sketch of Biquaternions,” 4.576
 - The Common Sense of the Exact Sciences*, 5.xxxvi, 254
- Climate
 - of the United States, 3.171–72
 - See also* Rainfall
- Clive, Robert, 5.27, 32, 36, 8.261, 268, 279, 639
- Clock, 6.346
 - by Krille, 6.279, 476
 - mean time, 6.347
 - in pendulum work, 6.279
 - by Tiede, 6.342, 485
 - See also* Chronometer; Pendulum
- Coan, Titus Munson, 6.xxxviii
- Coast and Geodetic Survey. *See* United States Coast and Geodetic Survey
- Coast Survey. *See* United States Coast and Geodetic Survey
- Coast Survey Report. *See* United States Coast Survey Report
- Cocksurenness, 8.389
- Coefficient
 - of expansion at constant volume, 8.171, 172, 406
 - of a point, 8.60, 61
 - of pressure increase, 8.406

Coexistence

- relation of, 6.364, 365, 368, 489, 491
- Cogito, ergo sum*, 5.458
 - relation of argument to categories, 5.239–40
 - as simple consequence, 5.329
 - See also* Descartes, René
- Cognition, 1.153, 155, 488–90, 498–99, 2.75n, 111, 114, 117, 163, 204, 239, 4.242
 - absolute incognizability, 3.319
 - absolutely determinate, 2.xxvii, 163–64
 - action and reaction in, 5.225
 - actual, 2.75n, 472
 - basis of, 1.489
 - characteristic element, 6.458
 - comprehension of, 2.74
 - continuity of, 5.436
 - determined by previous cognition, 2.xl, 162, 163–64, 165, 167, 175, 177, 180, 193–95, 201, 209–11, 213, 224
 - determined by transcendental object, 2.194
 - difficulties of a theory of, 1.489
 - direct, 3.54
 - division of mind, 6.185
 - essential element of, 5.246
 - extension of, 2.74
 - as a faculty of mind, 4.552
 - and feeling, 4.552
 - first, 2.163, 177–78, 209–11, 214, 238
 - future, 3.81
 - habitual, 2.75n
 - immediate, 1.515, 2.165, 167, 193, 204
 - of internal facts, 2.205–7
 - interpreted by another cognition, 3.77
 - intuitive, 2.190–91, 193n, 200
 - as judgment, 2.179–80
 - the limit of, 2.191
 - mediate, 1.517, 2.190–91, 200, 3.317
 - modes of, 2.162, 170, 204–5, 235
 - of the nature of habit, 4.421–22
 - not a mental faculty, 5.246
 - object of, 2.164, 165, 178, 190, 193, 194, 204, 239, 3.8, 80
 - as passage from doubt to belief, 3.108
 - a priori*, 1.247
 - process of, 2.214, 224
 - producing pleasure or pain, 6.184
 - real, 2.177, 239
 - and self-consciousness, 3.51–52

Cognition (*continued*)

and sensation, 4.421–22
 as sign, 3.76, 77
 sign theory of, 1.xxvii, xxx
 state of, 1.520
 theory of, 6.166
 of things in general, 1.501
 three elements of, 3.75
 three kinds of consciousness in, 6.185–86
 ultimate premise of, 2.162, 163, 175–78
 its volitional element, 5.223
See also Consciousness; Inference;
 Knowledge; Reasoning; Self-
 consciousness; Thought

Coherence

of experience, 3.34
See also Correspondence

Cohesion

of matter, 8.161, 162

Coincidence, 1.341, 6.206–7

“On the Coincidence of... Rainfall and
 Illiteracy” (P 68), 4.589

Colbert, Jean-Baptiste, 5.27, 36

Cole, Frank N., 8.lxxx

Coleridge, Samuel Taylor, 1.21, 5.27

Coles, Elisha, 1.132

Collected Papers of... Peirce, 4.572, 574, 586

Collection

class with essential character, 8.55–56
 denumerable, 5.207
 endless but numerable, 8.142
 endlessly infinite, 8.142
 finite, 8.134
 finite vs. infinite, 5.188–89, 8.lxxv, 139, 140
 of infinite sets, 8.142
 innumerable, 8.143
 of monads, 6.268
 non-ultrainfinite, 5.207–8, 209–10
 notation for, 5.186
 numerable, 8.141
 numerable vs. innumerable, 8.140, 142,
 143
 as object of logical study, 5.109, 112
 of pairs of whole numbers, 8.132
 trans-finite set, 5.444
 of two, 8.56
 ultrainfinite, 5.208, 444
See also Class; Magnitude; Series

Collective

order, 2.265

term, 2.251

Collier, Arthur, 1.21

Collins, Frederick Howard, 6.501

Epitome of the Synthetic Philosophy, 6.lxxv,
 lxxvi, 401, 500

Colon

sign of illation, 6.5, 417

Colonna, Benjamin A., 5.xxix, xxixn, 6.xxxii,
 xxxviii.12, 476

undermining Peirce, 6.xxxvii, lxi, lxii

Color, 8.155

apparent, 3.180, 385

as appearance, 5.288

of boundary line, 8.145–46

of brightness, 3.212–13

of cardinal's robes, 8.149, 397

color-contrast experiment, 8.235, 428

four-color problem, 4.xlvi, 6.xlv

Jastrow's experiments on sense of, 5.134n

of light, 3.384

limited existence of, 5.198

materialist view of, 8.123

measure of, 5.248

Peirce's 1889 color experiments, 6.lvi–lvii

Peirce's trained observation of, 6.185, 447

perception of red, 6.184–85

primary, 3.212, 215

pure feeling of, 8.96, 103

scientific study of, 4.xxix, 47–49

sensation of, 3.107, 212–13, 215–16, 235–
 37, 390, 4.48

spectrum of, 3.180, 212, 215, 384–86

of star, 3.183, 388–92

of stars, 4.162

study of, 5.xix, xlvii

of surface at a point, 8.396

theories of, 3.211

tridimensional spread of feeling, 8.147

and wavelength, 3.180, 385

Columbia College, 8.lix

Columbia University, 4.154

Columbus, Christopher, 5.27, 32, 38, 8.261, 279,
 442, 639

Combination

of elements of nature, 8.155

forms of, 8.421, 424

rule of, 5.369, 371

- Combination (*continued*)
 of terms in logic, 8.70
 and thirdness, 6.174–75, 441–42
 and triadicity, 5.306
- Commerce
 influencing unification of units, 8.351
- Commonplace
 universal experience, 6.384
- Common sense, 2.128, 163, 278, 471, 3.10, 6.lxxix, lxxxiii, 111, 138, 385, 499, 8.lxxvi, 15, 99, 105, 282, 283
 beliefs of, 2.436
 doctrine of, 1.153, 339
 English, 6.168
 and extraordinary stories, 6.498
 growth of, 6.387
 Hamilton on, 1.153
 metaphysical character of, 3.246, 343
 and philosophy, 2.xl, 153–54
 Reid on, 1.153
 self-correction, 6.388
 trustworthiness of, 6.497
See also Good sense; Instinct; Scottish school of common sense
- Common spirit, 8.415
- Communication, 8.lxxxiii, 155–56
 between minds, 8.398
 in classification of sciences, 8.275
 with God, 8.lxxxiv, 156
 personal, 8.156
See also Intercommunication
- Community, 1.4, 48, 8.xcvii, 188, 196
 beliefs of, 3.25, 57, 250, 251–52, 347–49
 a category of the It, 1.530
 as an end in itself, 2.xxviii, 487
 of feeling, 8.lxxxiii
 first necessary mode of dependency, 1.38
 future thought of, 2.241
 its greater personality, 8.415
 and increase of knowledge, 2.xxviii, 239
 intellectual, 3.284–85
 and logicity of men, 2.xli, 271–72
 vs. personal interest, 2.271–72
 of philosophers, 2.212
 and reality, 2.xxviii, 239, 241
 its right to punish individuals, 8.lxxviii, 464
 society of conscious beings, 8.448
 unlimited, 3.284–85
- See also* Individual; Privacy; Society
- Commutation
 of antecedents, 5.342, 8.208, 210, 213, 420, 421, 422, 423
 in logical algebra, 5.383
 rule of, 5.370–71
- Commutativity, 5.108, 434
 in logical algebra, 6.2, 51
- Commutativity, principle of, 8.66, 67, 256
- Comparator, 6.466, 477, 478
 Blair, 6.350, 351, 486
- Comparison, 2.53, 5.298
 between feelings, 8.104
 of collections, 8.56
 of ideas, 3.90, 103, 105
 of intensity of sensations, 3.236–37
 involving inference, 3.48
 in judgment, 3.90
 not applicable to immediate feelings, 6.184, 187
 of past and present ideas, 8.136
 relation of reason, 6.177
 of relations of lines and points, 8.60
 of sensations, 8.353
See also Ground; Representation
- Complexity
 explained by chance, 8.125
 in nature, 8.122
 of physical processes, 8.lxxxii
 resulting in new simplicity, 8.400
- Component. *See* Proposition
- Comprehension, 1.226, 276, 287, 292, 343, 468–69, 479, 485, 2.4, 6, 7, 75, 76, 81
 comprehensive distinctness, 2.79, 84, 86, 3.100
 concrete, 2.8–9
 and consciousness, 1.491
 or depth of a word, 1.459–60
 different terms for, 2.72–74
 doctrine of, 1.461
 essential, 2.7, 9
 and extension, 4.7–9
 ground of, 1.482
 historical account of, 2.70–74
 increase of, 1.465
 and information change, 2.9, 59
 and information of a term, 1.467
 logical, 2.6–9, 26, 68–69, 150, 156, 225, 328, 4.483, 5.359

Comprehension (*continued*)

- as numerical quantity, 2.76
- in Port-Royal Logic, 2.70–72, 74–75, 78, 328
- of proposition, 4.345–46, 451
- real, 2.6–7
- related to extension, 2.4, 6, 59, 76–78, 84
- of symbol, 1.503
- of a term, 1.463–64, 481–82, 2.145, 156
- and theory of inference, 2.431
- union in, 1.227
- various senses of, 2.74–82

See also Connotation; Extension

Compulsion

- blind, 8.119
- in causal belief, 6.355, 487
- external, 6.186, 190, 448, 449, 8.111
- internal, 6.187, 448
- inward, 8.127
- principle of, 6.1, 202

See also Force; Power

Computation, 8.53

See also Logarithm

Computer

- Peirce's electrical circuit, 5.xliv, 482

Comstock, Cyrus Ballou, 6.353, 487

Comte, Auguste, 2.126, 303, 5.xxiv, 27, 32, 37, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96–103, 106, 8.lxv–lxvi, lxix, 261, 279, 442, 444, 445, 638, 639, 643

- compared to Kant, 1.244
- criticism of his selection of great men, 8.lxvi, 259 *caption*, 267–70, 642
- on division of sciences, 3.4
- on hypothesis, 1.213–14, 3.4–5
- on judgments, 1.213
- his law of progress in theology and metaphysics, 1.212
- the limitations of his views, 1.212
- resemblance to Baconian system, 1.211
- his sociology, 1.213
- on symbolic conceptions, 1.215
- about the unknowable, 6.64, 247, 427
- his views on logic, 1.244

Cours de philosophie positive, 1.211

“The Comtist Calendar” (sel. 44), 8.xlv–xlvi, xlviii, 642–43

Conceivability

- vs. intelligibility, 8.119

Concept

- abstract, 2.115
 - category-, 8.85
 - clarification of, 2.342–44
 - clear, 3.257–58, 260, 355–56
 - complex, 6.177
 - comprehension of, 2.74, 75
 - comprehensive distinctness of, 3.100
 - confused, 3.257–58, 355–56
 - distinct, 3.257–58, 260, 355–56
 - empty, 5.400
 - extension of, 2.74
 - extensive distinctness of, 3.100
 - foundational, 6.168, 169
 - hypothesis as concept formation, 3.337
 - as mediate representation, 3.235
 - negative, 3.271, 369
 - object of logic, 6.272
 - obscure, 3.257–58, 355–56
 - positive, 3.271, 369
 - practical effects of, 3.xxix, 266, 365
 - pure, 2.136
 - of quality, 3.266–67, 365–66
 - of science, 2.342–44
 - scientific, 3.277–78
 - simple, 2.9–10, 231
 - vs. symbol, 2.56
 - synthetizing, 6.448
 - true, 3.56
 - universal, 2.115
- See also* Categories; Conception; Idea(s); Meaning; Name; Term(s)

- Conception, 1.27, 43, 45–46, 144–46, 323, 335, 353*n*, 469, 522, 524, 2.49, 127, 174, 471, 474
- analysis of, 1.71–72, 79–80
- basis for philosophical theory, 8.xxxix, 85, 99, 165
- basis of three-fold divisions, 6.169
- of being, 1.352, 521, 2.50, 52
- vs. belief, 2.170–71
- and categories, 1.473–75, 520
- vs. category, 5.237
- chain of, 1.353
- character of, 1.471–73
- coextensive, 1.210
- compounded, 1.523
- comprehension of, 2.225
- definite, explaining, immediate, 1.519
- diagrammatic representation of, 8.24, 366

Conception (*continued*)

- elementary, **1.8**, 519–20, **2.51**, 52
- essential to logic, **8.23**, 85, 109
- fruitful, **8.19**
- general, **2.6**, 470, 488, **8.xxxvii**, 96–97, 104–5, 109, 152
- hypothetic, **1.517**
- as hypothetic predicates, **1.472**
- idea of, **1.148**
- of infinity, **1.41–42**
- as innate idea, **6.xlviii**
- meaning of, **2.225**
- as mode of cognition, **2.162**, 170, 204
- primal— in presocratic philosophy, **xlix-1**, **6.181**
- primary, **1.8**
- a priori*, **1.28**, 158–59, **5.223**
- reducing manifold to unity, **2.49–51**, 199
- spatial origin of, **8.271**
- third category of mental phenomena, **8.96–97**, 104, 109
- three kinds of, **1.256–57**
- unanalyzed, **1.474**
- unitary, **8.43**, 194
- universal, **1.473–75**, 520, 524, **2.49**, 51
- validity of, **1.240**
- See also* Categories; Category; Cognition; Concept
- Concepts, **1.516**
- or logoi, **1.307**
- Conceptualism, **2.xxvi**, 98–100
- vs. realism, **8.352**
- as a theory of probability, **3.291–92**, 294–96, 298, 301, 305
- See also* Materialism; Nominalism; Nominalism; Realism; Realism
- Conciliation
 - of science and religion, **8.34**
- Conclusion
 - acceptance of, **8.235**, 236, 237
 - destined, **3.44**, 47, 49, 55, 58, 60, 81
 - effect of premise, **6.354**
 - fact belief in which results, **8.251**
 - in fallacy, **5.352**
 - fated, **3.57**, 81
 - final, **3.17**, 48–49
 - inductive or hypothetic, **1.290**, 292, 427–29, 441
 - of inference, **5.333**, **8.31**, 201
 - inferred belief, **6.354**
 - introduced by “ergo,” **5.415**
 - and multiplication of premises, **5.384**
 - in necessary inference, **5.336**, **8.71–72**
 - not given by logical machines, **6.68–69**
 - in perception, **8.235**, 428
 - probability of, **1.8**
 - of probable inference, **3.286**, 287–88
 - as result of logical calculus, **5.181–85**
 - of simple consequence, **5.328–29**
 - spurious, **5.350**
 - suggested idea, **8.237**
 - of syllogism, **3.195**, 324, 327, 329, **5.242**, 350
 - of syllogisms, **1.363**, 441
 - true, **3.27**, 244, 254, 341, 342, 351
 - ultimate, **3.8**
 - of valid inference, **3.244**, 245, 341, 342
 - of valid reasoning, **3.244**, 341
 - See also* Consequent; Inference; Premise
- Concord, **8.135**
- Concrete
 - vs. abstract, **2.157**
 - vs. singular, **2.154**
- Concurrency
 - type of dual relation, **6.364**, 489
- Condillac, Etienne Bonnot de, **2.115**
- Condition
 - conditional existence, **3.30–31**, 59, 80–81
- Conditional
 - abbreviation of universal sequence, **6.274**
 - de inesse*, **6.424**
 - material, **5.439**
- Conduct
 - in classification of sciences, **8.275**, 448
 - intellectual character of, **3.108**
- Conference on gravity determinations (1882), **4.xxxii**, 353, 360, 365
- Confidence
 - degree of, **5.xxvi**, 134
 - scale of, **5.125–27**
- Conformity
 - connection with diflection, **1.90**
- Conformity to law, **8.387**
 - absolute, **8.97**
 - exact, **8.105**
 - universal, **8.118**
- Confucius, **5.27**, 32, 42, **8.261**, 268
- Conger, Abraham Bogart, **3.109**, **6.419**

- Congressional Committee on Naval Affairs, 6.lxviii
- Congruence
and equality, 8.2
- Conic section, 8.27, 28–29, 414
- Conimbricenses, 2.71
De Anima Aristotelis, 2.117
De Anima Aristotelis, 4.509, 592
- Conjugate
logical interpretation of, 2.415
- Conjugative
kind of term, 6.166
- Conjunction
in Boolean algebra, 6.1–2, 52
fallacy of, 5.351
a “monad” of Boolean algebra, 6.268–69
properties of, 3.87–88
See also Disjunction; Multiplication
- Connectedness, 8.86
- Connection
of all mind with all matter, 8.408
between feelings, 8.97, 104, 182, 387
between minds, 8.156
blind when second, 8.87
causal, 3.62–63, 65, 67–68, 77, 80, 82
as contrast, 8.96
conventional, 3.65
dynamical, 6.211, 212
habitual, 3.75, 107
of ideas, 8.lxxxiii, 127–28, 150, 151, 154, 155, 392, 398
immediate, 6.268
manifest or occult, 8.97
of monads, 6.268–69
no-connection, 6.268
of objects in relation, 8.55
of pair of statements, 6.268
physical, 3.67, 76
real, 3.62, 63, 66, 67, 76
or regularity, 8.110
sense of real, 6.189, 190
sympathetic, 8.196
as third, 6.441–42
vital, 6.211–12
See also Association; Mediation; Relation; Representation; Sign(s)
- Connotation, 1.272–73, 277–79, 281–82, 285, 287–89, 302, 309, 342, 459–60, 467, 469, 478–79, 498
- of an act of attention, 2.49
as characters, 2.1
connoting as signifying, 3.89
historical account of, 2.72–74
in medieval logic, 2.73–74
as reference to ground, 2.59
of a term, 2.72–74, 3.89
See also Comprehension; Denotation; Depth; Signification
- Conscience
pursuit of, 5.229
voice of, 6.177
- Consciousness, 1.49, 60–61, 146, 489, 515, 518, 2.49, 128, 139, 227, 434, 472, 4.43, 47, 8.22, 365
and association of ideas, 5.326–27
and categories, 5.245–47
a category of the It, 1.530
and causation, 3.74–75
center of, 1.516
constitutive to existence of mind, 3.52
continuity of, 8.lxxxiii, lxxxiv, 81, 138, 397
degrees of liveliness of, 2.164, 177–79, 191, 210
development of, 8.xxxvi, 18, 365
diffused throughout the universe, 8.81, 380
double, 6.62
dual, 5.225, 247, 280, 6.188, 189, 213, 214, 215, 458
dynamical vs. statical, 6.215
elements of, 3.48, 262–63, 360–61
explained by chance, 8.125
external determination of, 2.175
of external world, 5.380
field of, 1.40 (*diagram*)
and firstness, 5.299, 300, 304
in firstness, 6.170, 171
a formal intuition of expression, 1.39
generalized feeling, 8.408
of habit, 8.104, 182
immediate, 3.262–63, 361, 6.173, 185, 188, 214, 448, 458, 8.137, 138, 150, 396
immediate object of, 2.205, 224
immediate vs. mediate, 6.184, 186
individual, 2.211, 8.18, 136
of individuals, 1.501
as inference, 1.491, 494
of inference, 8.235–39
and inferential control, 6.354

Consciousness (*continued*)

its intensity in primeval chaos, **8.181**
 introspective, **5.245**
 and intuition, **2.164**
 macrocosmic, **8.18**
 materialist view of, **8.123**
 as a material quality of man-sign, **2.240**
 vs. matter, **8.181**
 meaning of term, **1.495**
 mediate, **3.262–63, 361, 6.448**
 and memory, **3.312**
 modes of, **2.170, 205**
 modification of, **1.42, 85, 491**
 modifications of, **2.214, 233, 5.391**
 and nervous system, **4.40**
 objective, **8.138**
 objective elements of, **2.51–52**
 object of, **2.167, 171, 190, 205, 224, 3.39, 262–63, 360–61**
 personal, **8.182**
 its physiological requisite, **6.189, 448**
 physiology of, **5.225, 247**
 plural, **5.247, 6.213, 214, 215, 458**
 of polarity, **6.185, 186, 189, 190**
 of a process, **6.186**
 in protoplasm, **8.179–81**
 psychology of, **6.386–87**
 as public spirit, **6.167**
 public spirit among nerve-cells, **8.401**
 reduced to feeling, **8.96, 103**
 in relation to matter, **8.xxxi, xxxvi, 15**
 and secondness, **5.308**
 self-, **6.215, 8.155, 398**
 vs. sensation, **5.123**
 and separability of ideas, **5.238**
 simple, **6.188, 213–14**
 singular, **5.247, 6.458**
 social, **8.18**
 states of, **8.lxxxii**
 subjective elements of, **2.51–52, 167, 170, 171, 172, 190, 205**
 of synthesis, **6.l, 186**
 synthetic, **5.247**
 temporality of, **3.73–76, 103–5**
 three elements of, **1.491**
 three kinds of, **6.l, 183–86, 188, 213–14**
 three kinds of synthetical **186–87, 6.189–90, 215, 448, 458**
 through time interval, **8.lxxxii, 137–38,**

146, 396
 of time, **8.79, 80, 137–38**
 ultimate property of nervematter, **6.499**
 unitary, **6.386**
 as unity in thought, **2.240–41**
 unity of, **8.81, 380**
 vivid, **6.386, 496**
 voluntary, **5.225**
 world of, **1.47**
 zero degree of, **2.179**
See also Awareness; Cognition; Ego; Feeling; Mind; Privacy; Self; Self-consciousness; Sensation; Sense; Will

Consensus

constituting reality, **2.471**
See also Community

Consent

constituting truth, **2.470**
See also Community

Consequence, **5.330**

antecedent of, **2.348**
 chance of, **3.293**
 consequent of, **2.348**
 copula of, **8.xlvii, 212**
 definition of, **2.348–49**
 formal, **2.349–50**
 as general principle of argument, **2.432**
 as leading principle of argument, **3.290**
 logical and material, **5.337, 341, 360**
 material, **2.349–50**
 material vs. logical, **8.252–53, 440**
 practical, **8.366**
 probability of, **3.290–91, 293**
 sign of, **5.341, 8.253, 255**
 simple, **5.328–29, 330, 334, 458**
See also Claw; Inference

Consequent, **8.252–53, 422**

of an argument, **2.295, 432**
 of argument, **3.290**
 chain of, **5.172**
 common character as, **5.360**
 of a consequence, **2.348**
 and effect, **5.236, 445**
 fallacy of, **5.352**
 of a hypothetical proposition, **5.336–37**
 in hypothetical proposition, **6.5**
 of hypothetical proposition, **8.72**
 of inference, **3.203–4**
 inferred *a priori*, **1.180**

- Consequent (*continued*)
 insertion and omission of, 8.215–16
 last letter of proposition or clause, 8.210, 211, 212
 mark as, 5.337–38
 related to antecedent, 5.114, 236, 335, 341, 361, 445, 6.5
 and streamer, 5.361–71
See also Antecedent; Conclusion
- Conservation of energy, 8.liii, 34, 94, 407
 law of, 8.xxxix, lii, 15, 16, 87, 99, 101–2, 179, 190, 204, 243, 347, 407, 432
 primordial in Spencerianism, 6.lxxvii, 398–99, 427, 471–72, 501
 principle of, 6.63, 385, 404–5
 violation of, 8.xxxi, lxxxix, 178, 387, 432
- Consistency
 unity of, 1.167, 352, 471, 495, 500, 516–17, 5.446
- Constantine I, 5.27, 32, 36, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 105–6, 8.198, 261, 279, 639
- Contained in
 as term, 1.272
- Contained under
 as term, 1.272
- Contemplation
 of cognition, 2.162, 165, 193, 197
 immediate, 2.167, 170
 vs. inference, 2.169
 simple, 2.162, 193
 of a theory, 8.95
 as voluntary action, 2.234*n*
See also Cognition; Intuition
- Contemporaneity
 a category of the It, 1.530
 of states of feeling, 8.146
 a temporal expression of stage, 1.38
- Contemporary Review*, 3.xxxii
- Content, 1.479, 481
 considered as quantity, 1.459–60
 and information, 2.183
 of a proposition, 2.185
 of representation, 2.4
 and symbol, 1.498
 of a term, 1.462, 2.74, 77
 what a word connotes, 1.459–60
See also Comprehension; Symbol(s); Term(s); Word(s)
- Contiguity, 2.237
- association by, 5.326–27, 6.186, 8.127, 136, 397
 origin of, 8.387
 of two qualities, 6.190
- Continuity, 1.391, 8.xxxix, xl, 17, 21, 117*n*.1, 136, 165, 196, 415
 Aristotle's conception, 8.144
 Cantor's conception, 8.143–44, 391, 395
 of cognition, 5.436
 condition of, 8.134
 of consciousness, 8.lxxxiii, 81, 397
 its definition not metrical, 8.395
 definition of, 5.xx
 development of, 8.391
 element of reality, 8.xcv
 emergence of, 6.209, 210
 essence of thought, 8.xcv
 of experience, 8.xxxii
 of feeling, 8.149, 156, 380, 396
 and generality, 8.xcv
 idea of in science, 3.277–78
 of ideas, 8.137–38, 150–51, 155
 and infinitesimals, 8.lxxxiii, 145
 intensive, 8.147
 Kant's conception, 8.143, 144, 394
 law of, 8.lxxviii
 of mind, 6.440, 8.193, 195, 205
 not infinite divisibility, 8.130, 394
 order of, 8.143
 paradox of, 2.254–57
 its philosophical importance, 8.109
 of qualities, 8.147
 and synechism, 8.lxxxii
 and thirdness, 5.301, 306
 of thought, 8.203
 through infinity, 8.93
 of time, 8.lxxv, 134, 147
 violation of its principle, 8.167
See also Paradox
- “Continuous, simple quantity” (MS 394), 4.580
- Continuum, 1.158
 Cantor's notion of, 8.391
 of elements in a set, 6.363
 of feeling, 8.149, 153, 154, 398
 of feelings, 3.39
 hyperbolic, 8.134, 391
 of an infinite number of dimensions, 8.lxxv, 133
 infinitesimal — of feelings, 8.lxxxiii, 147

- Continuum (*continued*)
 Peirce's 1896 conception of, **6.lxxx**
 properties of, **8.144, 145**
 of protoplasm, **8.147**
 of sensible matter, **8.398**
 of space, **3.69, 103, 106**
 spatial, **6.210**
 of time, **3.69–71, 103–4, 106**
- Contractility
 of protoplasm, **8.13, 81, 158, 174, 400**
- Contraction
 of muscle-cell, **8.163**
 muscular, **8.13, 16, 174**
 of solids, **8.162, 163**
- Contradiction, **1.229, 344, 513, 528, 2.139, 145, 163, 3.267, 366**
 of categoricals, **2.27–28**
 formal, **2.173**
 in Hegelianism, **2.152–53**
 and negation, **4.26**
 principle of, **2.183–84, 258, 380, 387–88, 421, 429, 4.30, 33, 174n, 177–79, 186, 256, 478, 571, 5.172, 191, 214, 334, 356, 358, 6.4, 6, 53, 57, 158, 269, 8.74, 75, 220, 423, 562; shibboleth to the dualistic mind, 6.173**
 and the principle of excluded middle, **4.256**
 real, **2.83, 173**
 rule of, **5.370, 371**
 self-contradiction of finite things, **2.158**
 self-contradiction of particulars, **2.153–54**
 and syllogism, **4.477**
 verbal, **2.83**
- Contradictory, **8.636**
 expression of precise denial, **8.76, 252**
- Contraposition, **1.513, 2.27n, 32–37, 42, 186, 3.192–93**
 form of inference, **5.339**
 as not an inference, **2.35–36**
 principle of, **4.174, 175, 179–80, 477, 5.358**
 rule of, **6.265, 266**
 two kinds of, **2.37**
See also Syllogism
- Contraposition, principle of, **8.213, 214, 219, 421, 423**
- Contraries
 paradoxes of, **2.257–61**
See also Paradox
- Contrariety
 difficulty of definition, **1.354n**
 of hypotheses, **1.292–93**
 of inductions, **1.292–93**
- Contrast, **8.96**
 relation of reason, **6.177**
- Control
 inward, **8.16**
 of our actions, **8.282**
 over conscious inference, **8.235**
- Convention
 element of notation, **5.111**
 signification by, **2.238, 319, 330**
- Conventionality
 sign based on conventional connection, **3.65**
See also Connection
- Conversion, **2.32–36, 39–42, 93, 3.193**
 as not an inference, **2.35–36**
 per accidens, **5.349**
 simple, **2.31–34, 5.348**
 in syllogism, **5.243, 348**
See also Syllogism
- Conviction, **2.205**
 action determined by, **3.21**
See also Belief
- Cook, James, **5.27**
- Cooke, Josiah Parsons, **1.xviii, 6.407, 505, 8.lxix, 284, 450**
- Cooke, William F., **8.419**
- Coordinate
 Cartesian, **5.325**
- Coordination, **1.88–89**
 of feelings and minds, **8.148**
 of ideas, **8.lxxxiii, 154**
 implying a teleological harmony in ideas, **8.155**
 of reactions, **8.152**
- Coote, Edmund, **1.122–23n, 130–31n, 120n, 127, 137n, 140**
- Cope, Edward Drinker, **6.lxxvi, 407, 505, 8.42, 373**
- Copernicus, Nicolaus (Mikolaj Kopernik), **2.190, 3.55, 243, 339, 4.489, 5.27, 32, 37, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 104–6, 408, 8.lxi, 202, 261, 287, 418, 652**
 Copernican system, **8.168n.5**
- Copula, **1.474, 518, 4.421, 8.128**
 in algebra, **3.186, 187**

Copula (*continued*)

algebraic, 2.451–56
 algebra of, 4.173–74, 193, 347, 477, 573, 587, 5.108, 112, 114, 8.xlvii, xlviii–xlix, xlix*n*.40, 210–21, 419–23, 612–21
 basis for calculus of logic, 8.74, 222
 and being, 2.49–50
 of consequence, 8.xlvii, 212, 421
 converse of, 4.26, 31
 definition of, 8.208, 212–13, 217
 and equal sign, 5.107
 equiparance of, 3.85–86, 97
 of exclusion, 4.23
 of identity, 4.26, 8.xxxviii, 30–31, 367
 and illation, 4.xlv–xlvi, 170, 173
 of inclusion, 4.23, 26, 29, 30, 31, 32, 33, 421, 5.107–8, 112, 434, 8.xxxviii, xlvii, 30–31, 208, 217, 421
 of intersection, 4.23
 logical properties of, 3.85–86, 90–92
 meaning of, 8.72, 75
 name of claw sign, 8.72
 negation of, 4.166–68, 179–80, 347
 in proposition, 2.296
 in a proposition, 3.85, 96–98, 5.338
 its propositional role, 8.86, 222
 quasi-copula, 3.92
 reducing manifold to unity, 2.49–50
 rule of interpretation, 8.73
 scriptibility of its formulae, 8.208–9, 419–20, 613
 as sign of attribution, 2.81
 sign of attribution or subsumption, 1.483
 sign of equality, 1.483
 as sign of identity, 5.352
 as sign of illation, 5.362
 sign of predication, 1.483
 single copula notation, 4.221
 symbol for, 5.112–13, 114
 symbol of, 4.23, 166
 three algebraical rules of, 8.72–73
 transitive, 6.66
 transitivity of, 4.xlv, 174–75, 190, 5.171–72, 336
 transitivity of, 3.85–86, 97–98
 two meanings of, 1.517
 unbalanced, 5.108
 useful formulae for, 8.74
 and the verb “to be,” 2.103–4

See also Algebra; Claw; Predicate; Streamer; Subject

Copy, 1.xxxiii, 79, 174, 289, 342
 early term for icon, 1.151
 as kind of representation, 1.323, 328
 or likeness, 1.467
 meaning of the term, 1.257–58
 representation which connotes only, 1.272
 resemblance of, 1.170
 science of, 1.304

Corday, Charlotte, 5.27, 8.261, 639

Cornell Daily Sun, 5.xlii

Correction

of errors, 8.243, 388, 431
 of generalization, 8.432
 of natural ideas, 8.xxxii, 26

Correlate

and comparison, 2.53
 in dual relation, 6.370
 as an other, 2.55
 reference to, 1.xxvi, 353–54, 473–81, 486, 522, 528, 2.53–56, 57, 82
 and relate, 5.187, 308
 of a relative number, 3.286
 of a relative term, 3.93, 114
 as Second, 5.239, 6.211
 of triple relative, 6.175
See also Category; Disquiparance; Disquiparant; Equiparance; Equiparant; Relate; Relation; Relative(s); Sign(s)

Correspondence

between collections, 8.56
 of thought and reality, 3.34
 truth as, 3.56, 282
See also Coherence

Correspondence course

advertisement for, 6.14
 and Cyrus Field, 6.xxviii, 423
 history of, 6.xxviii–xxix, xxxv–xxxvi, xxxix
 lack of success, 6.xxx, 418
 letters from student, 6.54–55
 letters to students, 6.33–34, 35–40, 56–57
 in logic, 8.xxix–xxx, xxx*n*.10, liii, lxi–lxii, 553, 556, 613, 632–33
 marketing strategy, 6.21–26, 420
 methodology, 6.10–13, 15–18, 28–29, 34, 56
 pedagogical benefits, 6.11, 16–17, 18, 24–26, 30, 32, 33–34

- Correspondence course (*continued*)
 plan of, **6.xxix**, 11–12, 16–18, 25, 28–30, 420
 ticket for, **6.31** *illus.*, 420
See also Exercise, logical; Pedagogy
- Correspondent, **1.xxxiii**
 reference to, **1.353–54**
- Cortez, Hernando, **5.27**, 32, **8.261**, 268, 442, 639
- Cosmogony, **8.110**
 in “A Guess at the Riddle,” **6.209–10**
 Peirce’s work on, **8.111**, 386–87
- Cosmology, **8.xxxv**, *xxxvn*.16, *xxxix*, *liii*, *lx*, *xcv*, 126
 in classification of sciences, **8.275**
 described in letter to Ladd-Franklin, **8.386–87**
 evolutionary, **5.xxxix**, **8.liii**, 135
- Cosmos, **8.xciv**, 179, 412
 as mind, **8.185–86**
 of order, **8.lxxxix**
- Cost
 and demand, **3.173–76**
 and price, **3.173**
 and supply, **3.109**
See also Political economy
- Cotgrave, Randle, **1.123n**, 132
- Coulomb, Charles Augustin de, **4.93**, 563, **5.27**, **6.482**
- Counting
 of cards, **8.1–2**, 7–8, 9, 10
 of finite class, **8.133**
 and logical algebra, **5.220**
 and number, **5.284**
- Couple
 aliocouple, **6.491**
 ordered pair, **6.489**
 vs. pair, **6.365**, 368, 488
 sibicouple, **6.490**, 491
See also Pair; Relation, dual
- Cournot, Antoine Augustin, **2.xxxvi**, **4.380**
- Cousin, Victor, **2.135**, 316, **6.505**
 categories of Kant, **1.160**
Documents relatifs à l’histoire de France, **2.312**
Fragments philosophiques, **2.117**, 312
Ouvrages inédits d’Abélard, **2.312**
- Cowper, William, **8.495**
- Cracow
 university of, **8.1**
- Craig, Thomas, **4.i**, *xxxix*
Treatise on Projections, **4.xxxiii**, *lix*
- Craigie, Andrew, **8.374**
- Craigie House, **8.46**
- Craik, George L., **1.117**, 118, 122
- Creation, **1.44**
 the absolute necessity, **1.94**
 analysis of, **1.85–90**
 as kind of necessity, **1.94**
 object of love, **8.185**
 reproductive, **8.194**
 spiritual, **6.174n.1**
- Creator
 proof of infinite nature of, **1.44**
- Credence
 degree of, **2.98–102**
See also Credibility; Probability
- Credibility
 as degree of credence, **2.102**
 of extraordinary stories, **2.100–101**
 of religious belief, **2.125**
See also Probability
- Creed, **8.li**, 240–41, 429–30
 of Christendom, **8.lxxvi**, 347, 389
 disbelief in, **8.409**
 disintegration of, **8.lii**, 242
 Spencer’s, **8.242**
- Crelle’s Journal*. *See* Borchardt, Carl
- Crichton, James, **5.27**, **8.261**, 442, 639
- Crime
 Peirce’s six-step method of curing 343–44, **8.465**
 as symptom of disease, **8.lxxviii**, 343, 344, 464, 671
See also Punishment
- Criterion
 Peirce’s, **6.280**, 476
- Critic, **1.xxxiii**
- Critical edition, **8.xl**, 41
- Criticism
 historical, **8.112**
 philosophical method, **8.lvii**, *lviii*, 234
 and reasoning, **5.xliii**, 327–28
 “Criticism on *Phantasms of the Living*”
 Gurney’s attack, **6.82–100**
 Peirce’s evaluation of his errors in, **6.101–2**
 “The Critic of Arguments,” **8.633**
- Crofton, Morgan William, **3.121**, 379

- Cromwell, Oliver, 5.27, 32, 36, 8.261, 279, 448, 639
- Crookes, William, 2.286, 4.544, 594, 8.650
his radiometer, 8.100, 167, 384
- Crusades, 2.464
age of the, 1.106–7
- Cudworth, Ralph, 2.341, 5.404, 472–73, 8.400
importance of, 1.103
Treatise Concerning Eternal and Immutable Morality, 2.107
- Cunningham, James Vincent, 8.401
- Cupidity
rhetorical lever, 6.xxix, 21–22, 32
- Curry, Samuel Silas, 8.lxxxvii–lxxxviii, 355, 356, 468–69
- Curtis, Benjamin Robbins, 3.209
- Curtis, W. B., 6.286
- Curvature
negative, 8.lix, lxiv, lxvii, lxviii, 623
- Curve, 8.94, 99–100
cubic, 8.194, 414
geometry of, 6.xliii, 372–76, 491–92, 8.91
of insistency, 8.149, 150
isothermal, 8.169, 169*n*.6
statistical, 8.350
- Cusa. *See* Nicholas of Cusa
- Cusp
definition of, 6.492
in plane curves, 6.373–76, 491
- Cutts, Richard D., 4.xxxi
- Cuvier, Georges, 5.27, 32, 38, 8.261, 639
on metaphysics as metaphor, 1.497
his system, 1.212
- Cyrus, 5.27, 32, 36, 8.261, 442
- D**
- Dall, Caroline H., 5.437
- Dalton, John, 5.27
- Dana, Charles A., 8.504
- Dana, James Dwight, 6.lxxvi
- Daniel, 8.466
- Dante Alighieri, 1.101, 111, 5.27, 32, 35, 8.261, 268, 277, 279, 280–81, 418, 449
- Danton, Georges, 5.27
- Darius I, 5.27
- Darling, Brown & Sharpe, 5.8, 17, 150
- Darwin, Charles. *See* Evolution
- Darwin, Charles Robert, 1.xix, 488, 2.314, 357, 485, 4.liv, lv, lxx, 380, 544, 552, 592, 5.27, 32, 38, 451, 6.440, 451, 453, 8.xxxvi, xciiin.116, 21, 192*n*.2, 204, 243, 244, 261, 279, 291, 365, 373, 431, 448, 452, 639
Darwinian controversy, 4.lxix
Darwinians vs. Neo-Darwinians, 6.502
his idea of the long run, 4.lxix
and Malthus, 3.xxxvi
on natural selection, 3.244, 341
remarkable feature of Darwinian theory, 6.199, 450
and statistics applied to biology, 3.244, 340
his theory of evolution, 3.xxii, xxiii, 8.xcii, xciii, 102, 190, 191, 347
truth of his hypothesis, 6.166
On the Origin of Species, 3.xxiii, xxxvi
On the Origin of the Species, 4.lxix, 594
The Origin of Species, 8.xcii, 189, 190, 412
The Voyage of the Beagle, 3.xxii
- Darwin, Francis, 8.452
- Darwinianism, 8.18, 21–22, 42, 103
and Christianity, 8.194
vs. Lamarckianism, 8.102
vs. neo-Darwinianism, 8.243, 244, 431
- Dasein* (*Daseyn*), 2.146, 154, 156
See also Being; Existence; *Sein* (*Seyn*)
- Data, 1.56, 176, 474
- Dati, Carlo Roberto, 8.278
- Datum, 1.330
- Dauben, Joseph, 8.396
- Daumbusch (unidentified), 3.136
- Davenant, William, 1.124*n*
- Davenport, H. William, 4.lxix*n*, 6.442
- David, King, 5.27, 33, 36, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96–103, 105–6, 8.261, 443
- Davidson, George, 2.xxi, 4.xxxii, 350, 351, 6.xxxviiin.12
- Davidson, Thomas, 4.560
- Davies, John, 1.492
- Davis, Charles Henry, 1.xvi, 8.44, 374
- Davis, Ellery W., 4.li, lxvi
“Charles Peirce at Johns Hopkins,” 4.li
- Davy, Humphry, 5.27, 8.lxvn.75, 261
- Dawson, Edgar R., 6.lxxvii, 405–6, 503–4
- Day, Henry Noble
Elements of Logic, 3.4
Logical Praxis, 3.4
- D’Azeglio, Massimo Taparelli, Marchese, 8.278
- Deacon Brown’s store, 8.46

Death

- penalty, **8.lxxviii**, 342, 673
- secondary phenomenon, **8.122**
- state of things in infinite future, **8.386**
- See also* Future life; Ghosts

Debating

- Peirce's interest in, **1.2**

Decimals, **8.143**, 144

- in Arabic number notation, **8.63–64**
- circulating, **8.142**
- endless series of, **8.142**, 145
- and logarithmic computation, **8.53**

Declaration of Independence, **2.155**, **4.152**Dedekind, Julius Wilhelm Richard, **4.xlvii**, **1.5.xlv**, **8.369**, 447

- Deduction, **1.267**, 278, 289, 302, 362, 394, 412, 428, 438, 442, 450, 463, 485–86, 491, **4.588**, **5.295**, **6.166**
 - and absolute truth, **2.175**
 - apagogical form of, **4.430**, 435
 - as application of general knowledge, **3.315**
 - as application of general rule, **3.324–25**
 - and breadth and depth, **2.84**
 - deductive inference, **4.422–23**
 - deductive logic*, **3.3–4**
 - deductive reasoning, **4.420**
 - of the general form of syllogism, **2.243–44**
 - ground of, **1.290**
 - habitual suggestion by a general idea of a reaction, **8.lxxxiii**, 151, 152
 - and hypothetical proposition, **2.174**
 - and induction, **4.416–17**
 - involving icon, **5.164–65**, 281
 - Kant on, **1.9**
 - as a logical formula for attention, **3.337–38**
 - logic of, **4.lx**, 407–8, 454, 568
 - in mathematics, **5.164**
 - in metaphysics, **5.286**
 - necessary, **3.328**
 - and observation, **5.164**, 281
 - of one theory from another, **3.335**
 - performed by Nature, **4.lxx**
 - as principle of argument, **2.297**
 - probable, **3.328**, **4.409**, 413–14, 417–18, 424–26, 427, 430
 - process of, **1.441**
 - qualitative, **5.381–87**, 464
 - reduced, **1.338**
 - in science, **5.243**

- statistical, **4.414–17**, 418, 420, 424–26, 426*n*, 434

- as substitution of general signs, **2.446**
- and syllogism, **3.86**, 325, 327

- vs. synthetic inference, **3.305**

- theorem, **5.463**

- theorem of, **4.xlv**

- three figures of, **1.283**

- validity of, **2.xli**, 215

- volition as, **4.422**

- its yielding a conclusion, **5.181–82**

- See also* Hypothesis; Induction; Inference;

- Modus ponens*; Reasoning; Syllogism

- “On the Deduction of the Ellipticity of the Earth from Pendulum Experiments” (P 254), **5.23**

Dee, John, **6.liii**, **8.384**Defforges, Etienne Gilbert, **8.lxiii**Definition, **2.74**, 118, 120

- Aristotle, Hamilton, and Kant on, **1.58**

- and comprehension, **1.37**

- and denotation, **1.337**

- formation of, **2.443**

- framing of, **6.29**

- of geometry, **1.444**

- giving contents of an idea, **3.258**, 356

- involving contradiction, **3.37**

- Leibniz on, **3.260**, 357–58

- meaning given in, **3.100–101**

- of metaphysical concepts, **2.231**

- process of enumerating, **1.462**

- reasoning from, **2.44**, 85–86

DeGarmo, Charles, **8.383**

Degeneracy

- of categories, **5.450**, **6.xlix**, 171, 176–79, 442

- degenerate conic, **6.176–77**, 442

- degenerate cubic, **8.194**, 414

- degrees of, **5.456–57**

- of dual consciousness, **6.215**, 458

- of polar sense, **6.186**

- in quantificational logic, **5.438**

- of relation, **5.177–78**, 438–39

- of relation and fact, **5.162–63**, 244–45

- of relative term, **5.186**

- of secondness, **5.300**, 307–8, 455, **6.177**, 442

- of synthetical consciousness, **6.186–87**, 189–90, 215, 458

- Degeneracy (*continued*)
 of thirdness, 5.252–53, 301, 456, 457,
 6.178–79, 443
See also Categories; Second (Secondness);
 Third (Thirdness)
- De generibus et speciebus*, 2.52*n*, 71*n*, 81*n*, 195*n*
- Degree
 as Kantian category, 5.236*n*
 stages of, 1.38, 41
 successive stages of, 1.530
- De intellectibus*, 2.117
- Deiteration
 in existential graphs, 5.464
 in streamer notation, 5.378
- Deity
 conception of, 1.503
 existence of, 3.306–7
 personal, 5.260
 and scientific facts, 5.288–89
See also God
- De la Touche, Nicholas, 1.124, 131
- Delboeuf, Joseph, 8.165*n*.1, 379, 403
- Deletion, 5.xxvii, 107
 in existential graphs, 5.464
See also Erasure
- Deligiannes, Georges, 8.302, 303, 304, 457
- Delineation
 in geometry, 8.26, 27
- Delivery
 art of, 8.lxxxviii, 355–56
- Delsarte, François, 6.458, 8.355, 469
- Demand
 and cost, 3.173–76
 and price, 3.109–10, 173–74, 176
 and value, 3.173–74
See also Political economy
- Democritus, 5.27, 33, 37, 6.204, 445, 454, 8.261
 first determinist, 8.111
- Demonstration
 analytic, 2.106
 in geometry, 3.14
 mathematical, 2.315, 389
 nature of, 3.23–24
 in positive sciences, 6.254
 as a result of inquiry, 3.248, 345
 synthetic, 2.106
See also Proof
- De Morgan, Augustus, 2.xxxi, xxxiii, 69*n*, 88,
 311, 401, 444, 3.6, 310*n*, 4.177, 178*n*, 187–88,
 251, 381, 487, 508, 5.396, 442, 444, 461,
 6.272, 419, 474, 8.30, 139, 367, 368, 393, 417,
 445
 as an actuary, 8.139
 on comprehension, 2.74, 75, 77–78
 on converse, 2.429, 3.201
 on copula, 4.174
 definition of logic, 1.164
 on equality, 4.407
 on even chance, 3.296*n*
 on extension, 2.74, 76, 77–78
 his influence on “Description of a Notation
 for the Logic of Relatives,” 2.xlii, xlv–
 xlvi
 life and work of, 2.448–50
 on logarithm, 2.459
 and logic of relatives, 5.110, 188
 on negation, 4.172, 356
 on numerically definite inference, 5.115,
 179*n*
 and Peirce, 1.xxxv
 on probability, 3.292
 on proposition, 1.483, 4.xlix, 172–73, 178,
 217, 346, 421, 453, 495
 on relatives, 2.359, 418–19, 420, 450
 on scope and force, 2.72
 on syllogism, 1.369, 380, 386, 2.xliii, 30,
 3.98, 4.170, 408, 418*n*, 5.173*n*, 188–89,
 189*n*, 243, 353–54
 on universal class, 2.366
 on universe of discourse, 3.115, 4.170, 450,
 569
Differential and Integral Calculus, 2.448
Elements of Algebra, 2.448
Essay on Probabilities, 2.448
Formal Logic, 2.77*n*, 367*n*, 448, 3.292,
 4.569, 585, 587, 588
From Matter to Spirit, 2.449
 “On the Structure of the Syllogism [No. I],”
 4.172, 569, 575, 587
 “On the Syllogism,” 2.245*n*
 “On the Syllogism, No. III,” 4.182*n*
 “On the Syllogism, No. IV,” 4.xliv, 204*n*,
 574
 “On the Syllogism, No. V,” 4.173*n*
 “On the Symbols of Logic [No. II],”
 4.174*n*, 571, 577
 Syllabus, 4.lv, 176*n*, 401

- De Morgan, Augustus (*continued*)
Syllabus of a Proposed System of Logic,
 2.74, 77*n*, 450
Syllabus of Logic, 8.30
- Denham, John, 5.419
- Denial
 as mathematical monad, 6.270
 precise, 8.76
 of propositions, 8.252, 253
- Denomination, 2.78, 156
See also Extension
- Denotation, 1.272, 273, 277–79, 281–82, 286–89,
 293, 302, 337, 342, 345–46, 459–60, 469, 478–
 79, 496–98, 2.1, 3, 59, 227, 4.250
 of an abstract term, 3.99
 by causality, 2.237
 denotative power of mind, 2.49
 element of notation, 5.111
 and naming, 3.89
 of a predicate, 3.96–97
 vs. reference, 2.224
 of a sign, 3.84, 98
 and sign, 5.162
 of a subject, 3.96–97
 of a term, 2.72–74, 3.85–87, 89, 98, 99
 of a thought-sign, 2.224
 in universe of discourse, 5.112
See also Breadth; Connotation; Extension;
 Signification
- Dependence
 necessary modes of, 1.38, 530
 relation of, 5.362
 and secondness, 5.305
- Depth
 essential, 2.79–82, 3.100–102
 informed, 2.79, 82, 83, 3.100
 related to breadth, 2.83–86
 substantial, 2.79–80, 81–82, 3.100, 102
 of a symbol, 2.83
 of a term, 2.26, 74, 78–86, 3.88–89, 98–102
 various senses of, 2.79
See also Breadth; Comprehension;
 Connotation
- De Quincey, Thomas, 8.277, 278
 on Kant, 1.244
- Derby, George Horatio, 6.204, 454
See also Phoenix, John
- De Remusat, Charles, 1.205
- Desargues, theorem of, 6.38–39, 45 *fig.*, 70, 423,
 424
See also Staudt, Karl Georg Christian von
- Descartes, René, 1.xxiii, 67, 93, 103, 491, 4.590,
 5.27, 32, 37, 458, 6.168, 446, 496, 8.lxi, 39, 41,
 261, 268, 279, 418, 639
 Cartesian coordinates, 4.313
 and Cartesianism, 8.380
 on clear and distinct, 2.71–72
 on clearness and distinctness, 3.259–60,
 357
 his coordinates, 5.325
 on divine assistance, 2.480
 his doctrine of the mind, 6.386
 on doubt, 5.329
 on existence of deity, 3.307
 fundamentals of his philosophy, 2.211–13
 on mind, 2.109, 218*n*, 463
 his obsolete mind-body dualism, 6.391
 skepticism of, 3.258–59, 356–57
 on truth, 3.258–59, 273, 356–57, 371
Discours de la Méthode, 5.325
Discourse on Method, 3.xxxvi–xxxvii
Principia philosophiae, 2.71*n*
See also Cartesianism; *Cogito, ergo sum*
- Descent, 2.84
See also Breadth; Depth
- Deschappelles, Alexandre Louis, 5.27, 8.261, 639
- Description
 vs. speculative theory in science, 6.246–47
 “Description of a Notation” (P 52), 4.xliv, lvi,
 lvii, lviii, 169*n*, 182*n*, 183*n*, 195*n*, 204*n*, 211*n*,
 217, 312, 325*n*, 333*n*, 469, 471, 561, 569, 572,
 574, 575, 584, 587, 590, 591, 6.166, 439, 8.417
- Desforges, Captain, 4.xxxiii
- Design
 and intelligence, 4.552
 “Design and Chance,” 6.xlviii, 440, 8.xxxi,
 lxxxix*n*.111
 “Design and Chance” (item 79), 4.xlvi, lx, lxvi,
 lxvii, lxviii–lxx, 594
 “Design and Chance” (MS 494), 5.xxxiv, xxxvi,
 xxxix, xlv, xlv, 454
- Desire, 8.13, 14, 152
 distinct from will, 6.185
 dynamical synthetic consciousness, 6.215
 and envy, 5.407
 and feeling, 4.555
 general formula of, 6.193
 to learn, 8.389

- Desire (*continued*)
 as mental faculty, 5.245, 246
 vs. volition, 5.246
- Despair
 as insanity, 6.206
- Despotism
 method of, 3.25–26, 28
See also State
- Dessoir, Max, 8.42, 373
- Destiny
 and belief, 3.40, 44, 102
 and conclusion, 3.44, 47, 49, 55, 58, 60, 81
 and opinion, 3.8, 34, 273, 372–73
 and result of investigation, 3.56, 81
See also Fate; Necessity
- Determinants, 8.36–37
- Determinate
 philosophical meaning of, 2.154–57
- Determination, 2.84, 148, 152, 156
 of being, 2.149, 151–52, 175
 difference as, 2.150–52
 of ground, 1.527
 immediate or mediate, 1.327–28
 as negation, 2.147, 149–50, 231
 of nothing, 2.150
 of singulars, 2.156
 of will, 2.261*n*
See also Being; Nothing
- “On Determinations of Gravity,” 6.lvii
- “Determinations of Gravity... in 1879 and 1880”
 (item 1), 5.xxiii
- Determinism, 8.liii, 388
 absolute, 8.153
 criticism of, 6.204, 206–7, 454
 defined, 8.112
 examination of, 8.liii–liv, 111
 metaphysical postulate, 8.89, 109
 Peirce’s stand on, 5.xxxix
See also Anancasm; Necessitarianism
- Deterrence. *See* Punishment
- De Tienne, André, 6.lviin.37, lxxii, lxxiin.54, 8.xlviiiin.38
- Development, 8.xcii, 195
 of characters, 8.102
 of conceptions, 8.17
 of consciousness, 8.xxxvi, 18, 365
 of continuity, 8.391
 of cosmos, 8.xci
 of God, 8.xxxvi, 22
 of habit, 8.387
 Hegel’s view of, 8.200
 of human thought, 8.196–205
 imperfection of its theory, 6.l, 202, 453
 intellectual, 8.19, 21
 and limitation of possibilities, 8.147
 mental, 8.17
 of mind, 8.xciv
 as nerve property, 5.247
 not determined by logic alone, 8.200–202
 organic, 8.xciii, 190
 of personality, 8.lxxxiv, 155
 of regularity, 8.391
 of species, 8.102
 and thirdness, 6.212
 of thought, 8.xciv, 196–205, 414–15
 of time, 8.18, 22
See also Evolution; Growth
- Devey, Joseph, 2.75, 76
- Devil, 2.355
- Deville, Henri Etienne Sainte-Claire, 4.5, 357
- De Waal, Cornelis, 6.500
- Dewey, John, 4.xxxviii, lxi, lxii, lxvi, 8.389
- De Witt, Jan, 5.27, 33, 36
- Dexter
 as term of proposition, 1.320
- Dhiliyiánnis, Theódoros, 8.457
- Diagram
 analysis as, 6.451
 of combination of premises, 5.369
 contemplation of ideal construction, 6.355
 of dilemma, 5.357
 face of Marquand’s machine, 6.67, 67*n*.2
 in geometry, 5.286, 380, 381
 as icon, 5.163
 in logical algebra, 8.xlvii
 in mathematical reasoning, 6.37–39, 258–59
 in mathematics, 5.288
 in necessary inference, 5.331, 458
 observation of, 6.xxix, 37–39, 70, 187, 258–59, 386, 8.lxxi
 vs. pictorial idea, 8.70
 producing new analogy, 6.179
 quasi-diagrammatical power of signs, 8.64, 70
 in reasoning, 8.xxxvi, lxxi, 24, 64, 70, 290, 352, 366
 representing feelings and sensations, 8.569

Diagram (*continued*)

revealing new relations, 6.187, 448
 of syllogism, 5.164–65, 337
 and universe of discourse, 5.434
 of wealth distribution, 6.200–201, 452
See also Graph; Trees

Dialectic, 2.141

art of arts, 6.10
 of becoming, 2.137, 139–41
 of being, 2.140–41
 in Hegel, 2.136, 137, 139–43
 of Hegel, 5.221, 281
 as logic, 2.350, 351–52, 353
 in Plato, 2.142–43
 of Royce, 5.221, 233–34

Dialectics

dogmatical, 1.65–66
 insufficiency of, 1.65–72
 logical, 1.67–68
 philosophical objection to, 1.67
 psychological, 1.66–68
 refutation of, 1.67–71

Dialogism

as argument, 4.169
 canonical form of, 4.180–81
 indirect, 4.181
 and principle of excluded middle, 4.477
 and syllogism, 4.165, 477

Diamantis, 8.305, 307, 312, 331

Dickens, Charles, 5.27, 33, 390, 6.liii, 8.261, 411, 639

Dictionaries

use and arrangement of, 1.18

Dictionary

art of writing articles for, 8.453
 plan for a scientific, 8.xxvii, lxxi, 292–95, 646, 653–54

Dictum de omni et nullo, 3.85–86, 91, 4.174, 251, 571, 5.338, 459

Diderot, Denis, 5.27, 8.lxvii.75, 261

Diechistic, 8.392

Diez, Friedrich Christian, 5.27, 34, 37, 8.261, 639

Difference

accidental, 2.120
 and determination, 2.150–52

Diffusion, 8.433

in solid, 8.159, 399, 403

Dilemma, 2.183, 5.355–59

Blundeville's definition, 6.418

definition of, 5.355, 358, 6.7

in De Morgan's syllogistic moods, 5.243

diagram of, 5.357

in fifth icon, 5.173*n*

and Hegel's logic, 5.461

as moving the world, 5.461

performed in logical machines, 6.68

and *reductio ad absurdum*, 5.350

and Royce's logical method, 5.231

rule of, 5.371

stock example of, 6.7

Di Leo, Jeffrey R., 6.lviin.37

Dillection

connection with conformity, 1.90

necessity of, 1.87–88

Dimension, 1.28, 31

in analytical geometry, 6.260–62

and continuity, 8.395

infinite number of, 8.133, 142, 147

in ordinal geometry, 6.263, 473

of space, 8.89–90

why three in number, 8.88, 90

Diogenes Laertius, 6.183, 418, 447, 8.385, 388

response to Zeno's first two arguments, 1.329

Diogenes the Cynic, 6.429, 8.277, 278

Dionysius, St.

monastery of, 8.319, 460

Directionality, 8.lxxv

Dirichlet, Peter Gustav, 4.590, 5.27, 8.282, 449

Discontinuity

point on a line, 8.394

Discourse

subject of, 5.164, 224

See also Universe of discourse

Discovery

in nineteenth-century science, 8.204, 205

its road unbarricaded, 8.123, 389

in science, 2.344

scientific, 8.347

Discrepancies

between law and real facts, 8.89, 101

between observation and theory, 8.89

Discrimination, 1.473, 518–19

Disease. *See* Crime; Genius

Disjunction, 5.433

abbreviation of universal sequence, 6.274

in Boolean algebra, 6.1, 51, 8.65, 65*n*.1, 72, 72*n*.1, 367

- Disjunction (*continued*)
 a “monad” of Boolean algebra, 6.268–69
 properties of, 3.87–88
See also Addition; Conjunction
- Disorder
 and conscious state, 8.81
- Disposition
 involved in belief, 3.50
- Disquarance
 active and passive, 1.527
 correlate of, 1.475
 extension and intension of, 1.528
 ground of, 1.475, 479–80
See also Equiparance
- Disquarant, 1.348, 481, 486
 defined, 1.475
 reference of, to ground or correlate, 1.525–26, 527–28
 two kinds of, 1.347–48
- Dissociation, 1.473, 518–19
 electrolytic, 8.406
 as kind of abstraction, 5.238
 of molecules, 8.172, 176, 177, 406
 by perturbation, 8.173
- Distance
 action at, 8.78, 165, 404
 between particles, 8.168, 169, 170, 171
 finite, 8.25, 27, 93, 94, 143, 146, 395
 imaginary, 8.94
 infinite, 8.27, 29, 92, 93, 94, 107
 of molecules, 8.159, 161–62, 176, 399, 405
 in non-Euclidean space, 8.93, 273
See also Space
- Distillation
 destructive, 6.449
- Distinctio*
formalis, 2.321
realis, 2.321
- Distinction
 accidental, 2.120
 as kind of abstraction, 5.238
 mental, 2.320–21
- Distinctness
 of apprehension, 3.258, 356
 of concept, 3.257–58, 260, 355–56
 extensive, 3.100
 of idea, 3.258–60, 355–58
See also Clearness; Obscurity
- Distribution, 1.349
 development by, 5.198
 distributive principle in logic, 4.183, 186, 187, 482, 573
 formulae for relatives, 4.206–7
 formulae of, 5.173*n*, 191–92
 Peirce’s failure to demonstrate, 5.435
 principle of, 5.168, 193
 proof of its law, 5.xxvi
 proof of law of, 4.xlvii
 of syllogistic terms, 5.350
- Distributive
 order, 2.265
 term, 2.251
- Distributivity
 applied, 6.7
 distribution formulae, 8.256, 440
 of logical addition and multiplication, 5.383, 6.2–3, 52, 56–57
 of multiplication, 5.165
 principle of, 8.66, 440
- Disturbance
 of feeling, 8.104, 105
 of molecules, 8.164, 176, 403, 404
 propagation of, 8.22, 81
 of protoplasm, 8.lxxxix, 158, 159, 164, 174, 193
- Diversification, 5.xxxiv, 8.127, 155, 179
 continual, 8.122–24, 125
 of indices in logical algebra, 5.192–97
 vestige of chance-spontaneity, 8.181
- Diversity, 8.179
 of chance, 8.xc, 181
 of events, 8.120
 of a set, 6.360
See also Variety
- Divinity
 arguments relating to, 1.66, 68–69
- Divisibility
 infinite, 8.lxxv, 143, 394
 of time, 8.lxxv, 130, 134
- Division, 8.2
 algebraic, 2.363
 dichotomous, 8.222, 225 *illus.*, 620
 by dichotomy, 5.458
 fallacy of, 5.351
 logical, 2.15, 390, 391, 8.75–77
 process of, in enumerating sphere of a term, 1.462

- Division (*continued*)
 quotient or fraction, **8.77**
 and rule of three, **8.52, 378**
- Dixwell, Epes Sargent, **8.46, 376**
- Dixwell, Fanny Bowditch, **8.376**
- “Dmesis” (P 512), **8.lxxixn.98, 464, 672**
- “The Doctrine of Necessity Examined” (sel. 24),
8.xxxviii, lii, liii–liv, lxxiii, lxxxi, xcvi, 121
illus., 126, 126*n.1*, 135, 165, 575–79
- Dodwell, Edward, **8.460**
- Does, Jacob van der, **8.277–78, 278**
- Dogmatism
 Kant’s concession to, **6.183, 446**
- Doing
 vs. dreaming, **6.185**
- Dollar sign, **6.417**
 sign in algebra, **6.3, 53**
- Doubt
 absence of, **3.14–15**
 absolute indubitability, **3.23**
 of axioms, **5.xlv, 292–93**
 as beginning of investigation, **2.354, 356**
 danger of ignoring it, **8.lxx**
 and demonstration, **3.23–24**
 of Descartes, **5.329**
 and duality, **5.446**
 of existence of reality, **3.27, 254, 352**
 feigned and real, **5.447**
 and irritation of nerve, **3.22–23**
 object and content of, **3.61**
 passage to belief from, **3.35, 78–79, 102,**
105–6, 108, 246, 247–48, 261–62, 263,
343, 344–45, 359–60, 362
 philosophical, **2.189–90, 211–12, 356,**
5.230
 practically different from belief, **3.247, 344**
 presupposed in logic, **3.285**
 real, **2.354–55, 356**
 real or living, **3.14, 18, 23, 248, 253, 254,**
345, 351, 352
 sensation of doubting, **3.22, 247, 344**
 settlement of, **3.15–16**
 as a state of mind, **3.20, 21, 246, 343**
 supposed by logic, **5.446**
 and teaching of religion, **5.260**
See also Certainty; Habit; Investigation;
 Opinion; Scepticism
- Douce, Francis, **1.21**
- Downes, Olinthus Gregory, **8.412**
- Drake, Charles, **2.xxxiv**
- Drake, Francis, **5.27, 36**
- Drake, Stillman, **6.499**
- Draper, John William, **8.199n.3, 416, 418**
- Dream, **2.104, 170, 196**
 vs. doing, **6.185**
 dreaming and thing dreamt, **3.271, 370**
 kind of hallucination, **6.106, 113**
 as a mental phenomenon, **3.271, 370**
 as an observation, **3.41**
 vs. reality, **3.33**
See also Imagination
- Drives. *See* Faculties
- Drobisch, Moritz Wilhelm, **2.75, 76–77, 367,**
4.466
Neue Darstellung der Logik, **2.367n**
- Dropping
 of additive terms, **8.67**
- Dryden, John, **1.123, 5.27, 8.lxvii.75, 261, 442,**
639
- Dual
 combination of, **5.306**
 as form of number, **5.301, 306, 456**
 as logical character or fact, **5.243, 244**
- Dualism, **8.43**
 of Abbot, **5.286–87**
 Cartesian, **6.391, 8.18, 105, 232, 427**
 its exaggeration of secondness, **8.109**
 moralist’s way of thinking, **8.414**
 its only philosophical strength, **6.391**
 as a stage of thought, **6.173**
 weak, **8.180**
 wooden, **8.152**
- Dualism, Cartesian, **2.480, 482**
See also Cartesianism; Descartes, René
- Duality
 of consciousness, **5.225, 247, 280**
 of relation, **5.279–80**
 and secondness, **5.300**
 in sign relation, **5.162–63**
- Du Buat, Pierre Louis Georges, **4.100**
- Duclos, Charles Pinot, **8.268**
- Dufour, Guillaume Henri, **4.81, 563**
- Du Guez, Giles, **1.134**
- Duhamel, Jean Marie Constant, **8.145, 396**
- Dujardin, Félix, **8.399**
- Dumas, Alexandre (Dumas père), **8.lxv, lxvii.75,**
261, 278, 279, 640
- Dumas, Jean-Baptiste, **8.284, 450**

- Duncan, Willam, **2.76**
- Duns Scotus. *See* Thomas of Erfurt
- Duns Scotus, John, **2.xxiv**, 72, 79*n*, 111, 114, 311, 317, 464, **4.483**, 487, 507, 586, **5.30**, 34, 37, 47, 389, 405, **6.lxxx**, 205, 455, **8.lxvi**, 265, 268, 418, 443, 639
- on abstracting, **2.116**
 - on abstract names, **2.115**
 - on argument, **2.431–32**
 - on cognition, **2.75n**, 117
 - on connotation, **2.73**
 - on general objects, **3.235**
 - on logic, **2.350–51**
 - realism of, **2.xxvii**, 240, 277, 466–67, 472–73
 - scholasticism of, **2.465–66**
 - on syllogism, **2.430**
 - theory of *formalitates*, **2.329**, 473–74
 - on universals, **2.472–73**, 474
 - In Sententiarum*, **2.111**, 193*n*
 - Quaestiones in Praedicamentis*, **2.115**
 - Quaestiones subtilissimae*, **2.240n**
 - Quodlibeta*, **2.73n**
 - Super Praedicamenta*, **2.157**
 - Super Universalialia*, **2.430n**
- Dupanloup, Félix, bishop, **8.280**
- Duperrey, Louis Isidor, **4.369**
- Durandus a Sancto Porciano (of Saint Pounçain), **2.474n**, 475, **4.483**
- In Sententias*, **2.157**
- Duration, **8.138**, 390
- infinitesimal, **8.138**, 146, 149
 - See also* Instant; Moment
- Durchmusterung*, **3.xxv**, 182, 183, 389, 418, 473, 474, 475, 478
- Dürer, Albrecht, **5.27**, 33, 35, **8.261**, 279, 640
- Duty
- beauty and, **1.10–12**
- Duval-Jouve, Joseph, **1.164**
- Dyad
- chemical, **6.442**
 - not found in triad, **6.175**
 - set of plurality two, **6.360**, 361
 - See also* Couple; Pair; Relation, dual
- Dynamics, **6.172**, **8.xxxvii**, 35, 94–95, 99–100, 293, 384
- law of, **8.95**, 100, 425
 - See also* Mechanics; Physics
- E**
- “One, Two, Three
Fundamental Categories of Thought and
of Nature” (item 35), **5.xxxvi**
- Earth
- constitution of its crust, **4.359**, 593
 - density of, **4.360–61**
 - ellipticity of, **4.529**, 534, 574, **6.479–80**
 - figure of, **3.xxiv**, **4.79**, 80, 353–55, 356–57, 360–65, 365–69, 377, 529–30, 534, 593, 5.388, 399, **6.241**, 289, 400, 501
 - Peirce’s unpublished investigation of its figure, **6.iii**, lxii, 348, 469, 479, 486
 - quincuncial projection of the sphere, **4.xxix**, 68–71, 562
 - rotation of, **3.42**, 48, 55, 169
- Ecceity. *See* Haecceity
- Ecclesiastes, **8.184**, 410
- Echo, **6.177**
- Eck (Eckius), Johann, **2.74**, 121, **4.507n**, **6.206n.1**, 456
- In summulas Petri Hispani*, **2.111**, 113
- Eclipse of the sun, **2.xxii**, xxiii, xxix, xxxi–xxxii, 290–92
- Economics
- mathematical, **8.293**
 - of punishment, **8.lxxviii**, 342, 464
 - of treatment of criminals, **8.lxxviii**, 344, 464–65
- Economy
- and cost of research, **4.xxix**, 73–74
 - domestic, **8.295**
 - economic urgency of research, **4.74–77**
 - intellectual, **3.260**, 358
 - of pendulum experiments, **4.77–78**
 - political, **4.380**, 489, **6.18**, 419, **8.xcii**, 21, 186, 187*n.1*, 365
 - reciprocity treaty with Spain, **5.xxvii**, 144–48
 - of research, **4.xxxvi**, **8.100–101**, 385
 - of thought, **8.33–34**, 468
 - on utility of research, **4.73–74**
 - See also* Political economy
- Edgeworth, Francis Ysidro, **8.353**, 447, 468
- Edgeworth, Maria, **8.277**
- Edison, Thomas, **8.xlii**
- Education, **6.32**
- as analysis of ideas, **6.418**

Education (*continued*)

- the analyzing of ideas, **1.65**
- in colleges, **6.28, 30**
- conception of, **5.323–24, 329**
- its essence, **6.30**
- liberal, **4.liv, 380, 381, 6.10–11, 418, 8.295, 453**
- and logic, **4.381, 401**
- in mathematics, **8.lxx**
- its practical goal, **6.11, 30**
- role of logic in, **3.3–4**
- wholesale, **6.33**
- Educational Review*, **8.lviii, lxviii.77, lxviii.78**
- Edward I, **2.464, 6.379, 493**
- Edwards, Jonathan, **1.455, 6.397, 500**
- Edwards, Joseph, **8.lxxx**
- Eeny, meeny, mony, mi, **6.174**
- Effect
 - proximate vs. remote, **6.20, 419**
 - as second, **6.211**
 - See also* Cause
- Efficient
 - remote, **1.220**
 - See also* Causality; Causation; Cause
- Effort, **5.390**
 - or element of extension, **1.491**
 - in Lamarckianism, **8.102**
 - muscular, **8.96, 103**
- Ego, **1.42, 84, 155, 5.390, 391, 8.156, 182, 397, 398**
 - absolute, **2.162, 169, 203**
 - analysis of, **1.144**
 - and being, **2.157n**
 - feeling as affection of, **3.51**
 - formation of idea of, **3.54**
 - Kant on, **3.51–52**
 - non-ego, **8.78**
 - reality of things depending on, **2.181–82**
 - self-assertion of, **2.201**
 - the subject, **1.60**
 - subject-ego, **3.53**
 - transcendental, **2.194, 8.233**
 - unity of, **3.51–52, 8.xc**
 - universal character of, **2.139**
 - See also* Awareness; Consciousness; Person; Self
- Egoism, **8.185**
 - and altruism, **5.231**
 - as special doctrine, **5.391**

- Egotism, **1.xxix**
- Ehrenberg, Christian Gottfried, **5.27**
- Einstein, Albert, **8.lxxxvii**
- Eisele, Carolyn, **4.xixn, 8.lixn.64, lxix, 396**
 - Historical Perspectives on Peirce's Logic of Science*, **4.lxviii**
- Eisenstein, Ferdinand Gotthold, **4.590**
- Either . . . or. *See* Disjunction
- Elasticity
 - of a solid, **8.178, 403**
- Eleatic philosophers, **1.390**
- Eleatics, **2.254, 6.203, 454**
- Electricity, **8.110, 293**
 - in classification of sciences, **8.275**
 - need for measurement standards, **5.151, 160**
 - used for calculating machine, **5.xliv, 422**
- Elegance
 - in art of reasoning, **8.69, 75**
- Element, **5.393–95**
 - as essence, **5.418**
 - in presocratic philosophy, **5.295–98**
- Elementariness, **1.48**
- “An Elementary Account of the Logic of Relatives” (item 56), **5.xxxiiin, xliii**
- Elements
 - chemical, **8.18, 22, 67–68, 173, 450, 451**
 - periodical law, **8.204, 284–85, 450–51, 649–50**
 - sense-impressions as, **8.353**
 - table of, **8.284, 450–51**
 - See also* Categories
- Elements, chemical
 - classification of, **2.442**
 - decomposition of, **2.176**
 - discovers of, **2.286–87**
 - pairing of, **2.282–84**
- Elenchus, **5.396, 8.138, 393**
 - ignoratio elenchi*, **5.352**
- Elicitation, **5.400**
- Elijah, **8.348, 465**
- Elimination, **5.433**
 - general formula in logical algebra, **5.191**
 - logical method of, **5.197–203, 204–10, 445**
- Eliot, Charles William, **2.xxiv**
 - Education Reform, **4.566**
- Eliot, George, **5.27, 33, 35, 8.261, 277, 278, 279, 448, 640**
- Elizabeth I, **5.27, 33, 36, 8.261, 268, 279, 640**

- Ellipse, 5.397–98, 8.287, 287*n*.1
 degenerate cubic, 8.194, 414
 Ellipsoid, 8.93
 Ellipticity
 of earth, 6.479–80
 Ellis, Robert Leslie, 2.xxxiii, 4.xliv, 407, 587,
 8.379
 Ellis, William Rogers, 1.xvi
 Elocution, 1.2, 8.lxxxvii–lxxxviii, 355–56, 469
 Eloquence, 8.355
 Elyot, Thomas
 The Boke Named the Governour, 2.114
 Emanation
 in algebra, 5.399
 “Embroidered Thessaly” (sel. 51), 8.lxxii,
 lxxviii.90, 298 *caption*, 526–27, 655–70
 catalog entry, 8.513
 See also Thessaly, tale of
 Emendation, 5.399
 Emergence
 of feeling, 8.150
 Emergentism, 8.xcv
 Emerson, Ralph Waldo, 1.xvii, xxxi, 455, 2.xxiv,
 5.27, 34, 35, 77, 79, 81, 83, 85, 87, 89, 91, 93,
 95–103, 6.lxxxiv*n*.68, 438, 8.135, 261, 279,
 392, 640
 his influence on Peirce, 5.xlii
 Nature, 5.xlii
 Emmeche, Claus, 8.400
 Emotion, 5.400
 doubt beginning in, 3.285
 as excitation of nervous system, 3.337
 existing in mind, 3.29–30
 vs. feeling, 2.228–29
 or general idea, 8.593
 and hypothetical inference, 3.337
 vs. intellectual hypothesis, 2.229–30
 vs. judgment, 2.172, 206
 as prediction, 2.171–72, 206, 229
 vs. sensation, 2.230
 as sign, 2.237
 See also Feeling
 Empedocles, 6.445, 8.184, 410
 his elements, 5.393
 Empedoclean *philia*, 8.xci, 410
 Empirical formula
 in science, 3.333
 Empiricists, 1.180
 Encke, Johann Franz
 Berliner Astronomisches Jahrbuch für 1834,
 3.126
 Encyclopædia
 art of writing articles for, 8.453
Encyclopædia Britannica, 8.xxvii, 204*n*.5, 350,
 466
 End, 8.22
 determinate, 6.450
 ideal, 8.18
 in philosophy, 5.401
 predeterminate, 8.lxxxiv, 155
 tendency toward, 5.229
 tendency toward it an essential property of
 mind, 6.450
 of things, 8.22, 109
 Endeavor
 direct, 8.193
 in Lamarckianism, 8.xciii, 192
 Energy, 5.401–2, 8.35
 actual and potential, 3.207
 as actuality, 5.275*n*, 401, 404
 of attention, 8.13–14
 development of, 8.18
 discharge of nervous, 6.190, 190–91,
 448, 449, 450
 distribution of, 8.167–68
 dual sense of, 6.214
 due to molecular disturbance, 8.159
 and entropy, 5.405
 heat as, 8.165
 kinetic, 8.168, 169, 171, 176, 403, 405
 law of conservation of, 3.164
 law of mechanical lxxxix, 8.155
 loss of, 8.177
 positional, 8.167, 403
 potential, 5.xxxii, 275*n*
 potential and kinetic, 8.14, 163, 167, 407
 second element of an idea, 8.lxxxiii, 148
 spontaneous, 8.194
 of strain, 8.167
 See also Conservation of energy
 English
 deficiency of pronouns in, 8.63, 69
 Englishman, 6.107, 141
 English philosophy. *See* British philosophy
 English Society for Psychological Research, 6.xxxiv,
 xlili, 61, 426, 434, 8.409
 Enlightenment, 5.403

Ens

- and copula, 2.103–4
- defined in terms of copula, 3.92
- definite, 3.61
- parallel to nothing, 3.87–88
- and predicability, 3.86
- private determination of, 2.239
- rationis*, 2.103
- reale*, 2.103
- undetermined, 2.151
- as unity class, 2.15
- See also* Being; Existence; Nothing

Ens imaginarium, 1.156–57

Entelechy, 1.330, 5.404, 8.111

Enthymeme, 2.24, 24*n*–25*n*, 295, 5.404*See also* Argument, rhetorical*Entitas*vs. *ens*, 2.103*See also* Being; Existence

Entitative graphs, 5.458

Entity, 5.405

as a general name, 2.103

See also Being; Nonentity

Entropy, 5.405

Enumeration, 1.264

argument from, 2.85–86, 232

complete, 2.174

Enunciation, 5.406

three kinds of, 6.166

Environment

breaking up habits, 8.103, 193

its evolutionary effect, 8.244

Epagoge, 5.407, 474

Epaminondas, 5.27

Epictetus, 5.408, 8.277, 278, 388

Epicureanism, 8.18, 107, 364, 382, 385

and the absolute, 5.450

as philosophical outlook, 6.174

See also Lucretius; Philosophy

Epicurus, 1.457, 4.552, 5.27, 33, 37, 408, 6.440,

442, 454, 8.liii, lxvi, 112, 261, 268, 277, 278,

279, 385, 387, 640

Epicureanism, 4.xlvi, lv

Epicureans, 4.408, 586

Epicurean vision of swerve of atoms, 4.lxix

garden of fruitful suggestions, 6.xlviii, 176

on swerving of atoms, 8.111, 387

Epimenides, 8.382

Episcopal Church, 8.241

Episcopalianism, 1.xxxi–xxxii

Epperson, Gordon, 6.427

Equality, 5.409, 434

algebraic, 2.360

as congruence, 8.2

equal sign, 5.107, 465, 476

vs. identity, 2.68–69, 69*n*, 366–67

and inclusion, 2.xlii

in Jevons's machine, 6.66

logical, 8.74

meaning of, 8.64–65, 255

sign of, 6.1, 50–51, 8.30, 31, 63, 64–65, 255, 560

Equation

in analytical geometry, 8.57–61

Diophantine, 8.xliii

eliminant in, 5.396

elimination in, 5.397, 469

of first degree, 5.248

and form of proposition, 5.167

indices in, 5.380

of kinetic potency and energy, 5.275–76

Lagrangian, 5.264, 265, 266, 267, 270, 271, 273

in logical algebra, 8.67, 74, 76

multiple definitions of, 5.410–11

quadratic, 8.75

of second degree, 5.249

See also Motion; Van der Waals, Johannes

Diderik; Virial

Equilibrium

dynamic, 8.176, 406

in protoplasm, 8.lxxxix

stable, 8.178

unstable, 8.178, 180

Equiparance, 1.479–80, 5.412

of copula, 3.85–86, 97

correlate of, 1.475, 525–56

ground of, 1.475, 481, 526–27

law of, 1.528

object of, 1.526

relate of, 1.481

See also Disquiparance

Equiparant, 1.481

defined, 1.475

intension or depth of, 1.526

quality of, 1.475

reference of, 1.525

Equipollency, 5.412–13

- Equivalence
 in logic, **6.1**, 50–51
 logical, **5.434–35**
- Equivalent representation
 defined, **1.274–75**
- Equivocal name, **8.87**
- Equivocation
 fallacy of, **5.351**, 414
- Erasmus, Desiderius, **5.27**, 33, 35, **8.261**, 277, 278, 279, 448, 640
- Erasure
 in existential graphs, **5.463**, 464
 of expression in streamer notation, **5.376–78**
 of factors, **5.177**, 184, **8.67**
 of parentheses, **8.67**, 421
See also Deletion
- Erdmann, Johann Eduard, **2.132**, 218*n*
- Ergo
 illative, **8.31**
- Erigena, John Scotus, **2.107**, 276, 316–17, 481, **3.272**, 371, **5.27**
De divisione naturae, **2.316**, 317
- Eros, **8.411**
 exuberance-love, **8.xci**, 184
- Error
 accidental vs. constant in gravity
 determinations, **6.278**, 281
 in accordance of facts with law, **5.293**
 and cognizability, **2.239**
 correction of, **3.32**
 correction of sources of, **4.xxiii**
 discovery of, **2.162**
 distribution of errors, **3.133**, 278
 estimation of, **6.18**, 29, 254, **8.117**
 in gravity experiments, **5.4**, 21
 and inquiry, **5.223**
 in instinctive beliefs, **6.205**
 in judgments of sensation, **5.123–35**
 law of facility of errors, **3.119**, 124–25, 126
 law of variation of errors, **3.126**
 as manifold, **6.444**
 mathematical theory of, **5.124–25**
 mean, **3.111**, 379–81
 of measurement, **3.390**, **4.241**
 multiple definitions of, **5.416–17**
 negative, **3.125**
 of observation, **3.111**, 114, 119, 122–28, 133, 136–37, 185, 213, 333, 364–65, 379–80, 405–7, 411, 484, **6.12**, 18, 29, 204, 419
 in pendulum experiments, **3.217–34**
 positive, **3.125**
 presupposing self, **2.169**, 203
 probable, **3.121–22**, 123, 123*n*, 136–37, 185, 213–14, 236–37, 407, 411, **4.72**, 76, 77, 80–81, 355, 356, 368, 427, 429, 438, 542–43, 565, **5.123*n*–24*n***, 125, 129, 131–34, 134*n*, 416, **6.254**
 in proposition, **5.223–24**
 random, **8.388**
 of scientific beliefs, **8.465**
 and self-corrective method, **8.243**, 388, 431
 theory of, **4.lii**, 73
 and truth, **2.208**
 turned into truth, **5.287**
See also Ignorance; Observation, errors of; Pendulum
- Eschenmayer, Adam Karl August von, **2.110**
- Esprit de corps, **8.xc**, 182, 398
- Esquiros, Alphonse, **8.449**
- Essence
 of being, **2.433–34**
 multiple definitions of, **5.417–18**
 of a term, **3.37**, 100
- Esser, Wilhelm, **2.76**, 120, **4.508**, 592
- Esthetic understanding
 statical synthetic consciousness, **6.215**
- Ether
 first anaesthetic, **8.204–5**
 luminiferous, **8.233**, 448
 physics of, **8.275**, 293, 447, 448
 primordial, **6.250**, 251
- Ethics, **8.lii**, 431
 in classification of sciences, **8.275**
 great principle of, **1.22**
 of inquiry, **8.345–46**, 465
 in plan for dictionary, **8.294**
 practical part of, **1.6**
 of professional philosophers, **8.245–47**
 its theory a philosophical boon, **8.242**
See also Love; Morality; Morals; Punishment
- Etiquette
 in classification of sciences, **8.275**, 448
- Euclid, **2.74**, 415–16, 435, **5.27**, 33, 37, 39, **6.251**, 386, 471, **8.lxviii.77**, 63, 88, 88*n.1*, 92, 93, 100, 108, 140, 142, 261, 384, 394, 442
 his axiom of equality of figures, **5.409**

- Euclid (*continued*)
 his fifth postulate, **8.lxvii**, 272, 354, 446
 his geometry, **5.325**, 380, 398
 non-Euclidean geometry, **4.231**, 486, 546,
5.255–56
 Elements, **5.395**
See also Geometry
- Euler, Leonhard, **5.27**, 33, 37, 76, 78, 80, 82, 84,
 86, 88, 90, 92, 94, 104–6, **8.261**, 378, 394
 his circles, **1.224**
 his demonstration of the binomial theorem
 for integral powers, **8.140–41**
 diagrams of, **5.164**
- Euripides, **5.27**, 33, 35, **8.261**, 442
- European Geodetic Association, **6.421**
 meetings of, **6.26–27**
- Eusebius, **8.199**, 415–16
- Eustachius a Sancto Paulo
Summa philosophiae, **2.72n**
- Event
 binding into a flow, **6.209**
 causality of, **6.206–7**
 causality of (in Aristotle), **8.111**
 chance of, **3.293**
 constituted by regularities, **6.209**
 their course approximately determined,
6.208
 determined by general laws, **8.89**
 diversity and specificalness of, **8.120**
 first, **6.xlix**
 flowing in time, **8.130**
 fortuitous, **8.190**
 frequency of, **3.292**, 297
 idea as, **8.lxxxii**, 136
 independent, **3.288–89**
 inductively postulated, **8.115**
 influenced by regularity, **8.120**
 lawless, **8.123**
 logic of, **8.415**
 physical vs. psychical, **8.xc**, 180
 probability of its never happening, **6.389–**
90
 probable, **3.116**, 118, 281, 286–89, 291–92,
 297
 sense-impression as, **8.353**
 unintelligible as single, **8.123**
- Everett, Charles Carroll
Science of Thought, **4.401**, 587
The Science of Thought, **3.6**
- Everett, William, **8.437**
- Evidence, **8.lxxvi**, 88, 384
 hard fact of, **8.199**
 inductive nature of, **6.252**
 overwhelming, **8.118–19**
 positive experiential, **8.117**
See also Testimony
- Evident, **6.254**, **8.78**
 defined, **6.253**
- Evil, **8.lxxviii**, 184, 341, 464
 defect of love, **8.xci**
 existence of, **2.126–27**
 God delighting in, **8.410**
 problem of, **8.185**, 410
- Evolution, **8.26**
 agapastic, **8.xciv**, 189, 194
 anacastic, **8.xciii**, 194
 cataclasmic, **8.199**, 608
 cataclysmic, **8.xciii**, 102–3, 244
 and chance, **4.548–49**, **5.293**
 by chance, **8.xciii**, 190, 191
 from chance to law, **5.xxxvii**, xxxviii–xxxix
 by creative love, **8.xciii**, xciv, 194
 criticism of Spencer's theory of, **8.101–2**
 Darwinian, **8.xxxix**, xcii, xciii, 18, 21–22,
 129, 190–91
 elements common to its three modes,
8.194–96
 elimination of unfavorable characters, **6.l**,
 202
 evolutionism, **4.xlvi**, lxix, lxx
 fact of nature, **6.63**
 by fortuitous variation, **8.xciii**, 194
 genuine formula of, **8.102**
 from homogeneous to heterogeneous,
5.251, 296–98
 hyperbolic, **8.386**
 King's theory of, **8.xxxix**, xciii, 102–3
 Lamarckian, **8.xxxix**, xciii–xciv, 18, 22,
 192–93
 logic of, **4.lxix**
 by mechanical necessity, **8.xciii**, 191–92,
 194
 natural selection, **4.lxvii**, lxix, lxx, 46, 489,
 548
 not mechanical, **6.405**
 and philosophy, **4.547–48**
 and physical laws, **4.lxx**, 548
 principle of, **8.101**

Evolution (*continued*)

- and probability, 5.260–61
- secondary in Spencerianism, 6.398–99
- according to Spencer, 6.63, 402, 427, 501, 503
- by sporting, 8.192
- teleological form of, 6.lxxxiii, lxxxiv
- theory of, 3.xxii, xxiii
- as third, 8.110
- third mode of, 8.xciii–xciv, 18
- and thirdness, 5.239
- of thought, 8.xcv
- three principles of, 6.202, 453
- and time, 5.xxxviii–xxxix, 335
- of time, 8.387
- tychastic, 8.xciii, 194
- universal, 4.lxix–lxx
- of the universe, 4.lv
- See also* Development; Growth; Survival of the fittest; Tendency
- Evolution, algebraic, 2.363
- “Evolutionary Love” (sel. 30), 8.lxxxvii, xci–xciv, xcivn.113, xcvi, 525, 604–12
 - catalog entries, 8.511–13
- Evolutionism, 8.18, 155, 232, 364, 382, 385
 - and the absolute, 5.251, 450
 - of Aristotle, 5.360
 - and Hegelianism, 5.261
 - modern, 8.243
 - as philosophical outlook, 6.174
 - pseudo-, 8.155
 - questions on Spencer’s, 6.397–400
 - of Spencer, 5.260
 - thoroughgoing, 8.157, 404
 - See also* Darwin, Charles; Philosophy
- Exactitude
 - absent in law of habit, 8.178, 179
 - absolute, 6.203–4, 454, 8.lii
 - mathematical, 8.116–17
 - of natural belief, 8.25–26, 109, 119, 121, 366
 - of natural regularity, 8.118, 119
 - of scientific laws, 8.242–43
- Excitation
 - differences of, 5.122–23, 125
 - of protoplasm, 8.148, 180, 398
 - See also* Disturbance; Nerve cell; Nerve matter

Excluded middle

- and definition of negation, 4.26, 28–29
- denied by Hegel, 5.356
- and dialogism, 4.477
- and fifth icon, 5.173–74
- and inference, 4.499
- law of, 1.170
- principle of, 2.380, 387–88, 421, 429, 4.30, 33, 174n, 177–79, 186, 241, 477, 490, 493, 5.114, 191, 214, 355, 357–58, 6.4, 6, 53, 57, 158, 269, 8.74, 75, 76
- and the principle of contradiction, 4.256
- Excluded third
 - law of, 1.228
- Exclusion, 1.342
 - in extension, 1.528
- Exercise
 - growth by, 8.xciii, 192, 193–94
 - spiritual, 8.267
- Exercise, logical, 6.xxx, 19–20, 425–26
 - based on chemistry, 8.67–68
 - in Boolean algebra, 6.51–52, 53, 59–60, 8.67–68, 254–57
 - card games, 6.46–49
 - example of, 6.51–52, 56–57, 58–59
 - “members of a board” exercise, 6.59, 425
 - number series, 6.41–43
 - “powder-mill” exercise, 6.19
 - relational graphs, 6.43–46
 - sign classification, 6.xxix
 - value of practical11, 6.16, 18, 24–25, 28–30, 32, 36
 - “young king” exercise, 6.17, 19–20, 419
 - See also* Boolean algebra; Pedagogy
- Exertion
 - and pain, 6.184
- Exhibition
 - and mass, 1.54
 - spiritual, 1.92
- Existence, 2.127, 136, 146, 469
 - in Abbot’s objectivism, 5.286, 287
 - absolute, 3.52–53
 - absolutely incognizable, 3.319
 - absolute, three kinds of, 1.47
 - actualiter in mind, 2.472–73
 - its anacastic affinity for the good, 8.195
 - assertion of, 4.23, 253–54, 5.112, 336, 337, 346, 354
 - and axioms of logic, 4.545–46

Existence (*continued*)

vs. being, 2.433–34
 belief in one's own, 5.329
 and binding together of thoughts, 5.458
 as a category of thought, 2.135
 conditional, 3.30–31, 59, 80–81
 vs. *Dasein*, 2.154
 definition of, 4.25
 vs. essence, 5.418
 external, 8.xxxii, 78
 of external world, 8.78
 of faculties of mind, 3.31
 and fictitious objects, 3.46, 49, 57–58, 61,
 79, 86, 271, 280, 370
 general concept of, 3.79–80
 general description of, 5.xlvi, 258
 vs. generality, 5.403–4
 of general objects, 3.235
 of God, 3.306–7, 312
habitualiter in mind, 2.472–73
 of ideas, 3.63, 69, 73, 103
 implied or not in propositions, 6.272, 273
 independent of thinking, 2.104, 467
 indirectly asserted, 8.30
 of individuals, 3.93, 235–36
 Kant on, 4.403, 587
 in logic of relatives, 2.423–24
 of matter, 8.408
 of mental phenomena, 3.271, 370
 metaphysical theory of, 3.275, 374
 of the mind, 3.31, 52–53
 mind as fountain of, 8.124
 modes of, 3.54
 as motion, 5.257
 one's own, 3.50, 52–53
 out of the mind, 2.471, 474, 488
 and possibility, 5.372–73
 postulate of, 5.114
 and predicability, 3.86
 of propositional subject, 5.337, 346
 of reality, 3.9, 27, 28–30, 31–32, 34, 44–45,
 47, 49, 54, 56–57, 59, 81, 99, 254, 351–52
 and regular behavior, 6.209
 and relation, 4.2
 of relation, 5.208, 287
 relative to the mind, 3.29–30, 52–54, 73
 secundan, 8.400
 self-dependent, 1.48
 of sensation, 3.235–36

sign for, 4.338, 406–7
 struggle for, 8.xcii, xciii, 189
 of the subject of a proposition, 2.184–85
 syllogistic assertion of, 5.349
 or thing-ness, 8.181
 and time, 5.335
 and truth, 3.282
See also Actuality; Being; *Cogito, ergo sum*;
Ens; Nothing; Reality

Existent

the, 1.227

Existential graphs, 5.xliii, xlvi, 434, 458, 463,
 464, 6.xlv, 425

Existing

and being, difference between, 1.18

Expansion. *See* Gravity determinations

Expectation, 2.102, 376

See also Probability

Experience, 2.5, 129, 138, 163, 166, 435, 8.242
 against inexplicability, 6.206
 as antecedent of axioms of geometry, 1.218
 coherence of, 3.34
 continuity of, 8.xxxii
 corresponding to reality, 3.34
 deceptiveness of ordinary 78–79, 8.404
 direct, 3.29, 52
 dualistic description of, 6.172
 embodied in common sense, 6.390
 experiential inference, 8.114, 115, 117
 familiar vs. recondite, 6.383, 384, 385, 387,
 496, 498
 fluctuation of, 8.114
 Francis Bacon on, 3.243, 339
 gain of, 8.104
 general, 8.lxxvii, lxxviii
 and generalization, 3.336
 general vs. special, 6.388
 individual, 8.lxxvii, lxxviii
 inference from connection in, 5.327
 interior illumination, 3.242, 339
 mathematics as generalization from, 4.579
 mystical, 8.lxxvii, 23
 and natural belief, 8.119
 necessity for facts and objects of, 1.61
 ordinary, 6.110, 111, 387, 391
 as origin of knowledge, 5.226
 past and future, 3.300
 personal, 8.lxxvii–lxxviii
 possible, 8.114, 137

Experience (*continued*)

- Roger Bacon on, 3.242, 339
 - scientific, 6.384
 - secondness of its teaching, 6.171, 441
 - spiritual, 5.232
 - and synthetic consciousness, 6.458
 - and thinking, 1.28
 - and truth, 6.203
 - universal, 6.384
 - universal condition of, 1.27
- Experiment, 8.xl, 95
- as appeal to reason, 6.386
 - chemical, 8.24
 - its corrective value, 6.204, 205
 - Darwin's nonsense-291, 8.452
 - experimental verification, 4.450
 - imaginary, 8.19
 - mathematical, 8.24
 - physical, 8.19
 - in physical research, 6.248
 - through diagrams, 8.xxxvi, lxxi, 24, 290, 352
- Experimentation
- analogous with reasoning, 8.17, 19, 24
 - outward, 8.19
 - reasoning as, 6.xxix, 386
 - with things and their diagrams, 8.352
- Explaining syllogism, 1.427, 429, 441
- composed of propositions of three terms, 1.436
 - of the first figure, 1.433
 - first premise in rule of, 1.430
 - of hypothesis, 1.435
 - of induction, 1.430, 433–35
 - premises of, 1.434
- Explanation, 2.162, 175, 177, 8.156
- its anti-absolutist postulate, 6.167
 - of any given fact, 6.206, 456
 - causal, 8.xxxix
 - chance as part of, 8.119
 - complete or partial, 6.109–10
 - of fact, defined, 1.425
 - function of hypothesis, 8.87, 119
 - hypothesis as, 3.326–27, 328, 332, 334
 - hypothetic, 1.492–94
 - improbable better than preposterous, 6.111, 137
 - inductive, 1.492–94, 498–99
 - of laws, 8.21

- logical, 8.236
- materialistic, 8.236
- mechanical, 8.179
- not needed for certain facts, 6.205, 206, 8.87, 90, 101
- not needed for irregularity, 6.457
- of observed facts, 3.328
- in philosophy, 6.392, 398
- of a process, 8.236
- rational account of things, 6.409
- of spiritualistic phenomena, 6.381, 394, 499
- theory of, 6.109–11, 137
- ultimate, 6.445
- the Unknowable as substitute for, 6.398
- verbal, 8.243
- See also* Hypothesis; Inexplicability; Method; Theory

Explication

- direct and indirect, 1.458

Exportation

- law of, 5.435

Expression

- necessity of, 1.85–86
 - poetical or rhetorical, 8.75
 - according to S. S. Curry, 8.lxxxviii, 355, 469
 - of stage, 1.38
 - three formal intuitions of, 1.39, 530
 - triadic analysis of, 6.212–13, 457
- Extension, 1.49, 61, 144, 157, 160, 187–88, 210, 226, 287, 292, 340–46, 468, 478–79, 481–82, 485, 526, 528
- or breadth of a word, 1.459–60
 - and comprehension, 4.7–9, 345–46, 451, 483, 5.359–60
 - and consciousness, 1.491
 - determinate, of conventional sign or index, 1.469
 - different terms for, 2.72–74
 - doctrine of, 1.461
 - extensive distinctness, 2.79, 84, 86, 3.100
 - historical account of, 2.70–74
 - increase of, 1.465
 - and information change, 2.9, 59
 - logical, 2.6–9, 26, 68–69, 156, 328, 4.21–23, 483, 5.359
 - in Port-Royal Logic, 2.70–72, 75, 78, 328
 - quality of, 1.272–73

Extension (*continued*)

related to comprehension, 2.4, 6, 59, 76–78, 84
 relations of, 1.275–76, 344
 representation as, 2.76
 species as, 2.76–77
 of a term, 1.463–64, 467, 2.145, 156
 and theory of inference, 2.431
 things as, 2.76–77
 and truth, 2.4
 union in, 1.227
 various interpretations of, 2.74–82
 various kinds of, 2.6–9
See also Comprehension; Denotation

Extent, 1.478, 481

Externality, 1.79, 81–83

direct presentation of, 8.353
 of feelings, 8.148
 knowledge of, 8.78
 perception of, 8.78, 80

Eyck, Jan van, 5.27

F

Fabricius, David, 5.27

Fact, 4.164–65, 8.86

abstract, 4.2
 abstract elements of, 8.390
 vs. appearance, 2.168–69
 basis of spiritualistic controversy, 6.380
 vs. belief in a fact, 3.50
 classification of facts, 3.305
 as consequent, 5.360
 contingent, 5.330, 331
 degenerate forms of, 5.244–45
 dual, 5.244, 6.177
 expressed in statement, 6.1, 20, 50
 external, 2.171, 173, 205–6, 207, 213, 214
 facts assumed by logic, 3.246, 343
 factual nature of logic, 4.1–2
 vs. fancy, 6.16
 general, 6.206
 hard to discern when evident, 8.156–57
 imperfectly obedient to law, 6.204
 importance of, 6.384
 impossible, 5.331
 of indeterminacy, 6.205, 206
 individual, 8.113
 internal, 2.205–6

judgment about matters of, 6.25, 29–30
 vs. mathematical necessity, 6.256
 and moral realism, 5.231
 necessary, 5.331
 not calling for explanation, 6.205, 206
 observable, 3.42, 336
 of observation, 8.lxxxiv, 346
 observed, 2.175
 plural, 5.244
 possible, 3.278
 probability of, 3.278, 295
 proposition as sign of, 5.245
 real, 3.282, 6.18
 reduction of quadruple, 5.244
 regular, 6.206
 relation as, 5.287
 represented in inference, 5.245
 scientific, 2.125, 344–45, 5.288–89
 vs. scientific experience, 6.384
 self-evident, 2.165–66
 singular, 5.245
 statistical, 2.100
 vs. theory, 8.352
 three categories of, 5.243–44
 ultimate, 6.205, 206, 456, 8.xxxvi, 81, 87, 156, 380 (*see also* Ultimates)
See also State of things

Factor, 8.227–28

erasing of, 8.67
 order of, 8.67
 repetition of, 8.67
 vanishing, 8.75, 76

Factorial, 8.131, 224, 227, 424

Faculties

classification of, 1.8
 defined, 1.25–30
 special functions of, 1.63
 synthetical, 1.56
 three, 1.xxxvii, xxxviii
See also Classification; I, It, Thou

Faerber, Julius J., 4.lxvi

Fairfield, Walter B., 6.240, 286, 465, 478

Faith, 1.11, 42, 6.li, 167

creed, 8.240–41
 faculty of, 1.30
 and *modus ponens*, 5.334–35
 nature of, 1.78–79
 reason for, 1.74–78
 of scientific man, 8.346

- Faith (*continued*)
 and transcendentalism, 1.74–79
 as un-reason, 5.323
- Fales, Robert Alden, 8.lxxviii, lxxix*n*.98, 671
- Fallacy, 1.338
 of accent, 5.351
 of amphibology, 5.351
 of composition, 5.351
 dilemma as, 5.356
 of division, 5.351
 doctrine of fallacies, 5.345, 460
 and elenchus, 5.396
 of equivocation, 5.351, 414
 invalid argument, 2.83
 logical, 1.5
 as produced by reasoning, 2.128
 vs. sophism, 5.396
 in things, 5.351–52
 of words, 5.351
- “A Fallacy of Induction” (P 211), 4.li
- Fallibilism, 8.xxxii, liv, 366, 389, 415
 contrite, 8.xcvii
 Peirce’s moderate, 5.xlvi
 in philosophy, 8.lxxxv
 vs. skepticism, 8.xxxiin.12
- Fallibility
 of knowledge, 8.78
- False. *See* Rule of false
- Falsehood
 as value-monad, 6.269
- Falsification
 experimental, 6.248
- Falsity. *See* Contradiction; Negation; Scale; Truth
- Falsity (Falsehood)
 as algebraic value, 5.112–14, 166–67, 176, 382, 439
 circle as symbol of, 5.364–69, 462–63
 of cognition, 3.75
 “false” as syllogistic term, 5.357
 of hypothesis, 3.267, 278, 366
 and hypothesis, 5.169–70
 inconceivable, 3.203
 inference of, 5.173
 its logical definition (fourth icon), 5.172
 and meaning, 3.101, 267, 365
 presupposed in investigation, 3.60
 of proposition, 5.166–67, 240–41, 366–69, 382–83, 406
 represented by number, 8.77
 and scientific method, 3.272, 370–71
 and statement, 3.86
 vs. truth, 5.307
 and valid inference, 5.333
 value in algebra of the copula, 8.210
 value in Boolean algebra, 8.64–66, 71, 73, 75–77
 as variety of impossibility, 5.333
 zero sign, 6.3, 4, 53
See also Error; Fallacy; Negation; Truth
- Familiarity
 of experience, 6.383, 384, 385–86, 391, 496, 498
- “Familiar Letters about The Art of Reasoning” (sel. 1), 8.xxix, 535–37
 purpose of this text, 8.xxix
- Faraday, Michael, 5.27, 33, 37, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96–103, 104–6, 6.495, 8.261, 279, 442, 448, 639
- Farquhar, Henry, 4.xxx, 116, 540, 564, 5.8, 13, 16, 426, 6.220, 222, 465–66, 467, 468, 8.426
 his explanation of anomalous readings at Fort Conger, 6.xxxii, 461–62, 463, 466
 “On the Pendulum Observations at Fort Conger,” 6.xxxiii, 469
- Farragut, David Glasgow, 5.27, 36
- Fasl Ullah, 8.325, 331–33, 463, 657
- Fate, 2.260, 261*n*
 fated conclusion, 3.57, 81
 and free will, 3.267, 365–66
 as inevitableness, 3.49
 as necessity, 3.44
 and secondness, 5.300, 305
 as unavoidability, 3.273*n*, 372*n*
See also Destiny; Freedom; Necessity; Paradox
- Fatigue
 law of, 8.129, 153, 390
 in nerve or muscle, 8.177
 in nervous system, 6.190–91, 450
 phenomenon of, 8.129
 in protoplasm, 6.198, 8.158, 174
 rhetorical lever, 6.xxix, 21, 23, 420
- Fatmah, 8.461–62, 655
- Fauth, Carnill, 6.485
See also Chronometer
- Fay, Amy, 2.xxix, xxxiv, 8.458
 Music-Study in Germany, 2.xxix

- Fay, Charles, **1**.xxx1
- Fay, Harriet Melusina, **1**.xxx1–xxx2
- Fay, Harriet Melusina (Zina), **6**.xxv, xxxvii
- Fay, James Harrison, **8**.liv, lv, 628
- Faye, Hervé Auguste Etienne Alban, **4**.xxviii, xxix, xxx, xxxi, 12–20, 530, 560
his method of swinging pendulums, **3**.xxvi
- Fear
reason for punishment, **8**.341
- Feasibility, **1**.47
- Fechner, Gustav Theodor, **2**.xxx, 276, **8**.165, 402
his *Differenzschwelle* theory, **5**.xxv
his experiment, **5**.122, 436
falsity of his theory, **5**.436
psychophysical law of, **3**.125, 211–12, 294, 388, **4**.413, 488, 587
Elemente der Psychophysik, **3**.125
See also Unterschiedschwelle
- Feeling, **1**.489, 498–99, **5**.298, **8**.liv, xcv, 43, 569
absolutely simple, **2**.226–27, **3**.37
access and remission of, **8**.104
and active state of nerve cells, **6**.188–89, 392, 448
as affection of ego, **3**.51
of atoms, **8**.408
of believing, **3**.22, 247, 293, 294–95, 344
of bigness, **8**.148, 396
chaos of unrelated —s, **8**.387
communities of, **8**.lxxxiii
comparison between, **8**.104
comparison of, **6**.215
complex, **3**.39
compound, **8**.103n.2
consciousness of, **6**.184–85, 448, 458
contiguity of, **6**.190
continuity of, **8**.lxxxiv
continuum of, **8**.153, 154, 396, 398
continuum of feelings, **3**.39
conveyed in icon, **5**.380
diagram of, **8**.569
and direct knowledge, **3**.54
disturbance of, **8**.104, 105
element common to two ideas, **6**.190
an element of consciousness, **1**.491, 495
as element of mental life, 555· and intelligence, **4**.552
elements of, **3**.34
evolutionary history of, **8**.127, 147
excitability of, **8**.104
explained by chance, **8**.125
extension of, **8**.398
first category of mental phenomena, **8**.lxxxvii, 95–96, 103, 109
first department of mind, **6**.183
in firstness, **6**.167
in gas, **8**.81
of general idea, **8**.lxxxiii, 149
generalization of, **8**.182, 397, 408, 409
germ of generalizing tendency, **8**.110
in hyperbolic philosophy, **6**.393
identity of, **8**.97
immediate, **6**.l, 186, **8**.138, 146, 154, 353, 396
immediately living as, **6**.393
incomplex, **3**.38–39
individual state of, **8**.146–47
infinitesimal, **8**.lxxxix
instantaneous, **8**.396
intensification of, **8**.xc, 180
intensive continuity of, **8**.147
and intuition, **2**.194
in James Mill, **2**.304
as kind of consciousness, **5**.225, 246, 247
knowledge of, **1**.167
living, **8**.xc, 149, 150, 151, 154
materialist view of, **8**.123
as material quality of sign, **2**.228
meaning of, **3**.38–39
men of, **8**.38
metaphysical nature of, **8**.380
neighboring, **8**.97, 104, 408
of nerve-cells, **8**.398, 408
perfectly simple, **8**.103
as phenomenon of soul, **3**.11
physiological basis of, **6**.lxxix, 381, 448, 499
and pleasure and pain, **5**.246
of pleasure and pain, **6**.183–84
as predicate, **2**.228–29
as present consciousness, **4**.422
priman, **8**.400
property of protoplasm, **8**.lxxx, xc, 87, 147–48, 164, 175, 179–80, 398, 400, 408
and proposition, **3**.50
pure, **6**.214, **8**.96
and quality, **4**.555
quality of, **5**.380
reduced state of consciousness, **8**.96, 103
related to other feelings, **3**.33–34, 36–37

Feeling (*continued*)

- in relation to matter, **8.15**
- of remembering, **3.32**
- as representation, **2.228–28 29**
- secondary, **8.156**
- sinking in habit, **8.22**
- social, **3.251–52, 349**
- spatial extension of, **8.147–48, 396**
- of spread-out consciousness, **8.138**
- subject of inhesion, **8.148**
- sum total of what is present, **6.184**
- according to Tetens, **6.447**
- Tetens's *Gefühl*, **8.385**
- and theory of local signs, **6.449**
- of a thought, **2.230**
- total states of, **8.353**
- transitioning, **8.96, 104, 146**
- unity of, **8.380**
- unpersonalized, **8.110, 398**
- vague, **8.149, 182, 397**
- varieties of, **8.147**
- warp and woof of cognition, **6.185, 214**
- welding together of, **8.xxx, lxxxiii, lxxxix, 13, 149, 409**
- See also* Consciousness; Emotion; Impression; Perception; Quality of feeling; Sensation; Sense; Spreading
- Felton, Cornelius Conway, **8.299, 455**
- Fénelon, François de Salignac de La Mothe-, **5.27**
- Ferdinand II, **8.289, 452**
- Fermat, Pierre de, **4.268, 5.33, 8.lxi, lxvi, 261, 269, 444**
 - Fermatian inference, **8.lxxv, 130–32, 140, 145, 390, 591–92**
 - Fermatian reasoning, **5.207, 323, 363–64, 444**
 - Fermat's series, **6.41, 423**
 - his last theorem, **8.444**
 - his "little theorem," **6.39–40, 423**
- Ferrel, William, **2.xxii, 8.xlv, xlvn.34**
 - his evaluation of Peirce's "Report on Gravity," **6.481–82**
- Ferrero, Annibale, **4.488, 592, 6.lxxi**
 - on arithmetical mean, **3.375–77**
 - on mean error, **3.379–81**
 - Esposizione del metodo dei minimi quadrati*, **3.xxix, 375, 4.lv**
- Festau, Paul, **1.131**

- Feuerbach, Ludwig Andreas, **2.132**
- Fibonacci, Leonardo, **5.28**
 - Fibonacci's series, **6.41–42, 423–24**
- Fichte, Johann Gottlieb, **2.132, 154, 238, 5.27, 33, 37, 446, 8.262**
 - Bestimmung des Menschen*, **2.134–35**
- Ficino, Marsilio, **6.447, 8.278**
- Fiction, **2.104, 191, 6.187**
 - and denotation, **3.99**
 - dependent on thought, **3.49, 58, 78, 271, 370**
 - employed in science, **3.278**
 - indeterminacy of, **3.235**
 - mathematical, **8.93**
 - vs. reality, **3.9, 46, 49, 57–58, 61, 78–79, 86, 271, 280, 370**
 - See also* Imagination
- Field, Cyrus West, **6.xxviii, 33, 422–23**
- Fielding, Henry, **5.34, 8.262, 279, 448**
- Figment. *See* Fiction
- Figure
 - vs. number, **8.64**
 - See also* Earth; Syllogism
- Figure of speech
 - as fallacy, **5.351**
- Filioque*, **8.241, 430–31**
- Final cause, **1.144, 146–47**
 - and mental action, **6.193**
- Fine, Henry Burchard, **8.491**
- Finite
 - defined by syllogism of transposed quantity, **8.133**
 - vs. infinite, **8.139, 140, 238**
 - name, **8.86**
 - See also* Distance
- Finiteness
 - and secondness, **6.172, 211**
- Finley, John Park
 - his tornado predictions, **5.137**
- First
 - notion of, **1.486**
- First (Firstness), **5.293, 307, 8.17, 21, 109, 110**
 - as An, **5.245, 446**
 - absolute, **6.li, 173–74, 211**
 - its apothieosis in Parmenides, **6.444**
 - and "arche," **5.295–96**
 - as arche, **6.l, 181**
 - and cogito, **5.240**
 - definition of, **6.170**

- First (Firstness) (*continued*)
 description of, 5.238–39, 294–95, 298–99, 304, 6.170–71, 173, 211
 its essence, 6.211
 falsity of its description, 6.171, 441
 feeling and, 6.167
 and first cosmogonic flash, 6.209
 and immediacy, 6.173, 186
 independence of, 8.86, 87, 109
 indeterminate, 6.181, 206
 involved in Secondness, 6.171
 in Ionian philosophy, 6.181
 ipso facto sentient, 6.455
 mood or tone of thought, 6.169
 precission of, 5.238, 446
 priman in protoplasm, 8.399–400
 and principle of sporting, 6.202
 reality of, 5.xlv
 vs. Second and Third, 5.238, 305, 446
 in the swerving atoms, 6.455
 tenderness of its idea, 6.171
See also Adam; Categories; Category; Conception; Feeling; Second (Secondness); Third (Thirdness); Triad
- First cause, 1.92
- First principles, 8.lii, 23, 41, 243, 272
See also Principle
- Fisch, Max H., 4.xixn, xxn, xxxviin, xlvin, ln, lxix, lxixn, 5.xx, xxxv, xxxix, 6.xxvn.1, xxvn.2, xxxiv, xxxivn.8, xlviin.32, xlviin.34, lviii, lxxivn.55, lxxxn.58, lxxxin.62, lxxxiiin.67, 421, 425, 440, 442, 444, 8.xxvn.1, xxxv, xlviin, xlviin.38, lxiii, lxxix.86, lxxx, lxxxin.102, 374, 377, 400, 468, 528, 528n.3, 530
 on Peirce's intellectual development, 5.xlv, xlvi, 6.lxxx, lxxxix
Peirce, Semeiotic, and Pragmatism, 5.xixn
- Fischer, Friedrich, 2.75
- Fischer, Kuno, 2.132, 140
Logik und Metaphysik, 2.140
- Fisher, George Park, 2.xxiv
- Fisher, R. A.
Design of Experiments, 5.xxvi
- Fiske, John, 2.xxiv, 3.xxx, xxxi, xxxii, 5.xxxvii, 451, 8.lxiv
 his *philosophy of religion*, 5.260
Outlines of Cosmic Philosophy, 5.260
The Idea of God, 5.xxxvi, 260
- FitzGerald, Edward, 6.427
- FitzRoy, Robert, 3.xxii
 “The Fixation of Belief” (P 107), 4.559, 560, 8.410
- Fizeau, Armand Hippolyte Louis, 3.55, 273, 372, 4.121, 122, 131, 297, 578, 6.221, 467
- Flamsteed, John, 3.182, 389
- Flash
 at the cosmogonic origin, 6.209
- Flatus vocis*, 2.149
See also Nominalism; *Sermo*; *Vox*
- Flaubert, Gustave, 8.278
- Fleming, William, 2.114, 5.391, 400, 467
The Vocabulary of Philosophy, 2.110
- Flexure
 determination of, 6.460
See also Gravity determinations; Pendulum
- Fluidity, 8.403, 404
- Force, 1.53–55, 61, 151, 8.xxxix, lxxn.85, 19, 100, 110
 and acceleration, 3.205
 as acceleration, 6.172
 in analogy with Hegel's dialectic, 5.356
 attracting, 6.lxvin.44
 attraction and repulsion, 8.78, 112, 165, 167, 178, 404
 brute, 6.68, 8.199
 centrifugal, 6.lxvin.44
 chemical, 6.193
 conditional existence of, 3.30–31, 59, 81
 its conservative character, 6.64
 dependent on three differentials, 5.303
 in early Greek philosophy, 5.296
 effort as, 5.390
 of electricity, 3.205
 equilibrium of, 5.411–12
 in evolution, 5.260
 finite vs. infinite, 8.404
 friction, 8.407
 gentle, 8.xxxi, 15, 16, 19, 22, 153, 365
 governing principle of physics, 6.385
 of gravity, 8.xlv, 352
 idea of, 3.xxx, 268, 270, 318–19, 366–67, 369
 implying resistance, 6.214
 of index, 5.224
 language of, 6.177
 law of, 8.105, 146
 living, 3.207, 218–19
 mechanical cause, 6.172

Force (*continued*)

its mechanical role, 6.63
 molecular, 8.18, 22, 404
 natural, 3.166
 natural history of, 8.17
 and natural selection, 3.318–19
 nervous, 6.189
 non-conservative, 8.97, 105, 407
 its ordinary experience, 8.78
 parallelogram of, 6.178, 8.95, 105
 persistence of, 6.404–5, 471
 physical, 8.105, 192
 polar, 8.175, 179
 public, 8.464
 reactive, 8.400
 real, 6.179
 and secondness, 5.239, 299, 304–5
 subsisting between pairs, 6.211
 system of, 8.168*n*.5, 432
 transcendental, 6.187
 Van der Waals, 8.399, 405
vis a tergo, 8.195
vis viva, 6.385, 450
See also Compulsion; Gravity; Power

Force of a term, 2.72
See also Comprehension

Forgetfulness
 in nervous system, 6.191–92, 202, 449
 in testimony, 6.104–5

Form, 1.4, 5, 50, 144, 150–51, 159–60, 282, 289, 306, 330, 338, 2.115, 120, 277, 472
 applied to space and time, 1.290
 according to Aristotle, 5.360
 a category of the It, 1.530
 defined, 1.257, 274–75, 303
 determination of, 1.165
 employment of, 1.457
 and entelechy, 5.404
 eternal, 8.155, 465
 of the external sense, 1.31
 as faculties
 vs. frequency of actual occurrences, 6.255
 and hypothesis, 1.284, 290, 302
 in the imagination, 1.55
 Kant on, 1.242, 257
 logical, 1.302
 and phenomenon, 1.307, 313
 pure, 1.307, 6.258
 of a set, 6.360

and symbols, 1.184, 284

a total quantity of intuition, 1.39

Formal distinctions, doctrine of, 2.277

Formalism

of algebraic proofs, 8.65

Formalitates, doctrine of, 2.317, 473–74

Formality

of a set, 6.360, 362

Formula

algebraic, 8.64, 71, 74, 447

as diagram, 8.24

factorial, 8.131–32, 224, 227, 424

as image or construction, 8.447

vs. law, 8.154

of mental uniformity, 8.127

of *n*-point separations, 8.223–24

with one to five copulas, 8.217–21, 421, 422–23

scriptibility of, 8.208, 419–20

See also Icon

Forster, Paul D., 5.xxxix*n*

Förster, Wilhelm, 4.83, 6.486

on comparison of meters, 4.122, 133, 564

his pendulum experiments, 4.150

Fort Conger

Farquhar on anomalous readings at, 6.461–63, 466

Peirce's on anomalous readings at, 6.xxxii, 217–18, 463–64, 465

Peirce's struggle with report on observations at, 6.xxxi–xxxiii, xxxvii

See also Lady Franklin Bay Expedition; Pendulum experiments

Forum, 6.lxxviii, 8.xxvi

Foscolo, Ugo, 8.278

Foster, Henry, 4.355, 369, 534

Foster, Michael, 6.195, 450

Foucault, Jean Bernard Léon, 3.273, 372, 8.354, 468

Fouillée, Alfred Jules Emile, 8.42, 373

Foundation

philosophical, 8.23

Foundationalism, 6.392, 406

Spencer's, 6.396, 398

Four

analyzable into threes, 6.175

Four-color problem, 1.xvii

Fourth figure, 1.xxxv

- Fourthness
 inexistence of, **6.174–75**
- Fowler, Thomas, **2.74, 75**
The Elements of Deductive Logic, **3.3, 4**
- Fox, Charles James, **5.27**
- Fraction
 of geometric segments, **6.263, 265, 473**
- “On Framing Philosophical Theories” (sel. 5),
8.xxxvi, 540–41
- Francis, Philip
Letters of Junius, **4.577**
- Frank, Jerome
 “A Conflict with Oblivion,” **3.xxxiv**
- Franklin, Benjamin, **2.241, 4.152, 153, 5.27, 33, 36, 6.177, 8.262, 267**
- Franklin, Christine. *See* Ladd-Franklin, Christine
- Franklin, Fabian, **4.xxxviii, xxxix, xlix, li, lxvi, 258–59, 8.370**
 “Note on... Forms,” **4.577**
- Fraser, Alexander Campbell, **2.462, 482, 484, 8.38, 371**
 Locke, **5.69, 70, 8.xl, lxv, 38–41, 371–72, 544**
See also Berkeley, George
- Fraunhofer, Joseph von, **2.285**
- Frazer, Persifor, **6.xxxviii**
- Fredegisus of Tours, **2.195n**
- Frederick II, **5.27, 33, 36, 8.262, 268, 279, 639**
- Freedom, **2.115, 260, 261n**
 breath of the spirit of love, **8.195**
 and chance, **4.552, 5.xxxvi, 261**
 as essence of material, **5.296**
 and firstness, **5.239, 299**
 of firstness, **6.170, 171, 211**
 in hyperbolic philosophy, **6.393**
 and indeterminacy, **5.307**
 omitted in Hegelianism, **8.195**
 perfect, **1.11**
 of will, **8.liii, 112, 387, 388**
See also Fate; Paradox
- Free Religious Association, **8.xxxiii**
- Free thinking, **8.193**
 surrender of, **8.34, 370**
 tribunal of, **8.34**
- Free will, **1.6, 29, 8.112, 113**
- Frege, Gottlob, **2.xxxi, 4.lii, 5.439, 6.xliv**
 his notion of heredity, **6.438**
Begriffsschrift, **4.lviii**
- French philosophy, **2.137**
 eclectic, **1.456**
 positive, **1.457**
- French Revolution, **8.188**
 example of tychastic evolution, **8.199**
- Frequency
 probability as frequency of events, **3.292, 297**
 ratio of, **8.21**
 relative, **3.292, 297, 301, 313–14**
 of variations, **6.201**
- Frequency, relative, **2.xxiv, 22–23, 267**
See also Probability
- Fresnel, Augustin, **5.27, 33, 37, 392, 8.lxvi, 262, 268, 639**
- Freycinet, Louis Claude Desaulses de, **4.83, 355**
Observations du Pendule, **4.563**
- Friction
 theory of no 316, **6.318**
See also Atmospheric effects
- Fries, Jakob Friedrich, **2.76**
- Frisch, Christian, **8.452**
- Frodsham, Charles, **5.14, 21**
 his chronometer, **5.13–14, 21**
 his sidereal clock, **5.4**
- Froissart, Jean, **5.27, 8.lxvn.75, 262, 639**
- Frothingham, Octavius Brooks, **1.457**
 Frothinghamism, **1.212**
- Fuertes, Estevan Antonio, **5.xxxi, 6.275, 276, 277, 475**
- Fuller, Sarah Margaret, **8.46, 377, 392**
- Function
 and copula of inclusion, **5.434, 435**
 dagger, **5.434**
 Gudermannian, **5.269**
 logical, **3.115, 115n**
 mathematical, **3.115n, 119, 120**
 mean as, **3.375–76**
 and results of observation, **3.123**
 as term substituted for idea, **1.148–51**
See also Judgment
- Functions
 theory of, **6.263, 8.91, 93**
- “Fundamental Properties of Number” (item 45),
5.xlii–xliii
- Funk & Wagnalls, **8.xxvii, 508**
- Furtmair, Max, **2.110**
- Furtwängler, Philipp, **5.452**
- Fusion, **8.162, 163**

Future, **8**.xxxii, 80
 becoming past, **6**.206
 belief, **3**.59
 and causation, **8**.15–16
 cognition, **3**.81
 and cognizability, **2**.250–51
 determined by past, **3**.204
 essential element of personality, **8**.155
 experience, **3**.300
 and increasing determinacy, **6**.208
 indefinite, **6**.208
 infinite, **8**.lxxv, 134, 151, 386, 387
 infinitely distant, **8**.110
 mediate consciousness of, **6**.184, **8**.79
 vs. past, **8**.128, 146
 vs. present, **8**.149
 and rationality of thought, **3**.108
 regularity in, **2**.469
 suggested by the past, **8**.150

Future life
 arguments against, **6**.62–63
 arguments in favor, **6**.xxxiv, 61, 63
 reality of, **6**.64, 435
 as religious or sentimental proposition,
6.61, 64

G

Gabriel, Angel, **8**.72
 Galen, **1**.373, **5**.27, 33, 38, **8**.262
 Galilei, Galileo, **1**.103, **2**.xi, 188, 190, 341, **3**.243,
339, **4**.379, 450, 489, **5**.27, 33, 37, 76, 78, 80,
 82, 84, 86, 88, 90, 92, 94, 104–6, 325, **6**.172,
 254, 385, 499, **8**.lxi, 100, 262, 384, 418
 on first law of motion, **6**.391
il lume naturale, **6**.386, **8**.xl, 94, 99, 383,
 384, 439
 his thought experiment, **6**.495
Dialogo sopra... sistemi, **4**.592

Gallatin, Albert, **5**.153
 Galois, Évariste, **8**.268
 Galton, Francis, **3**.278, **4**.380, 440, 488, 592,
5.xxiii, xxiv, 447, **8**.xl, lxxv, 38, 279, 371, 448,
 467

Gama, Vasco da, **5**.27
 Gambetta, Leon Michel, **5**.27, 36
 Gambling
 and probability, **3**.282–83

Game
 of chances, **6**.256–57, 472
 million players example, **8**.102, 385
See also Card game

Garcilaso de la Vega, **5**.27
 Garfield, James Abram, **4**.156, 566
 Garibaldi, Giuseppe, **5**.27, 33, 36, **8**.262, 639
 Garrick, David, **5**.27, 34, **8**.262, 279, 442, 639
 Garrison, Wendell Phillips, **6**.lxxv, **8**.xxxiv, l, lii,
 lvii, lxi, lxxv, lxxviii, lxxxvii, 429, 432, 433, 445,
 529, 530, 626, 628, 629, 630, 644, 647, 649,
 654, 675
 employing Peirce as reviewer for *the*
Nation, **8**.xxvi, 527

Garrison, William Lloyd, **8**.lxxv, lxxvii.75, 262, 442,
 639

Gas, **8**.lxxxii
 condensation of, **8**.171–72
 explanation of its properties, **8**.100, 167
 having feeling, **8**.81
 kinetical theory of, **8**.169, 190, 204, 399,
 412
 law of expansion of, **8**.406
 motion of particles in, **8**.118
 viscosity of, **8**.16, 97, 100, 105, 167

Gassendi, Pierre, **2**.112
 Gataker, Thomas, **1**.123*n*.24
 Gauld, Alan, **6**.434
 Gauss, Carl Friedrich, **2**.315, **3**.375, **4**.546, **5**.27,
33, 37, 430, 431, **6**.64, 247, 427–28, **8**.lxvi,
 262, 268, 282, 366, 379, 382, 388, 419, 424,
 444, 447, 449, 495, 546, 639
 his life and work, **5**.39–40
 on sum of three angles, **6**.203, 454
 about the theory of numbers, **6**.255, 258,
 472

Gautier, Paul Ferdinand, **5**.xxxii
 pendulums from, **6**.lxvi
 Gautier, Théophile, **6**.liii
 Gehler, Johann Samuel Traugott, **4**.585
 “Pendel,” **4**.372*n*

Geissler, Heinrich, **4**.276, 277, 278
 Gell, William, **8**.456, 459
 Gellius, Aulus, **5**.355, **6**.418
 General idea, **8**.lxxxiii, 149, 150–52, 194
 analogous to a person, **8**.xc, 182, 185
 coalescence of feelings, **8**.lxxxix, 408, 409
 connection between ideas, **8**.154
 consciousness of, **8**.182

- General idea (*continued*)
 or emotion, **8.593**
 its insistency, **8.397**
 living reality, **8.lxxxiv**, xc, 154, 155, 408
 modification of consciousness
 accompanying regularity, **8.xc**, 182
 personality as, **8.lxxxiv**, 154, 155
 physical relations of, **8.181–82**
- Generality, **8.lxix**, 179
 and cognition, **2.180**
 and continuity, **6.440**
 and deduction, **3.315**, 324–25
 in feelings, **8.182**, 353
 gained by feelings flowing together, **8.153–54**, 408, 409
 gained by ideas spreading, **8.lxxxii**, 126, 136, 397
 general form of inference, **3.195**
 general form of proposition, **3.95–96**
 general law, **3.332**
 general object, **3.235**
 general proposition, **3.315**
 general relation, **3.236**
 general relative, **3.94–95**
 general term, **3.88**, 94, 98
 induction as generalization, **3.326**, 336
 in reasoning, **5.163–64**
 in science, **3.277–78**
 of sign, **3.84**
 and similarity, **2.305**, **3.73**
 in singulars, **2.180–81**
 its tendency to spread and perfect itself, **8.182**
See also Conception; Generals; Universals
- Generalization, **2.84**, 185, **8.lxxiv**, lxxv, lxxxix, xc, 15, 179, 196
 action of habit, **8.182**
 awareness of, **8.569**
 brummagem, **8.187n.1**
 false, **8.186**
 of feeling, **8.182**, 397, 408, 409
 and habit-taking tendency, **6.208**
 of ideas, **8.lxxviii**, lxxxii, 127–28, 129, 149, 365, 397
 and likeness of sensations, **8.353**
 in mathematics, **8.91**, 106, 107
 principle of, **6.l**, 202
 probable statement open to possible correction, **8.432**
 scientific virtue, **6.172**
 self general, **6.365**
 tendency to, **6.393**, **8.xxxix**, 97, 104, 124, 387
- Generals
 existence of, **2.xxvii**, 239
 reality of, **6.lxxxii**
 vs. singulars, **2.181**
See also Generality; Universals
- General Theological Seminary (New York), **8.lxxxvii**
- Genesis*, **6.209**
- Genghis Khan, **5.28**, 33, 36, **8.263**, 268, 639
- Genius, **8.xl**, 38, 185, 415
 aberrations of, **8.lxvi–lxvii**, 283, 449
 artistic, **1.16**
 criticism of Lombroso's view of it as mental disease, **8.lxvi–lxvii**, 277–83
 defined, **1.25–30**
 divination of, **8.196**
 originality of, **8.69**
 according to S. Johnson, **1.25–26**
See also Great men
- Gentzen, Gerhard, **5.xxvii**, 433
- Genuineness. *See* Categories; Second (Secondness); Third (Thirdness)
- Genus
 character of, **1.330**
- Geodesy, **1.xx**, **3.xxvi**, xxviii, **4.79–81**, 350, 351, 359–60, 360–62
 its departure from mean spheroid, **6.lxviii**
 determining the figure of the Earth, **3.xxiv**
 elevation of, **6.291**
 form of, **6.289**, 479
 Peirce's contribution to, **6.lx Geoid**, **8.xxviii**
 Peirce's leadership in, **5.xxxii**, xxxviii, xlvi
See also Earth; Gravity; Pendulum
- Geognosy
 in classification of sciences, **8.275**, 448
- Geography
 in classification of sciences, **8.275**, 448
 in plan for dictionary, **8.295**
- Geology, **4.80**, 350, 351, 358–59, 360–61
 biological, **8.294**
 in classification of sciences, **8.275**, 448
 in plan for dictionary, **8.295**
- Geometry, **1.218**, 268, 306, 528, **4.169n–70n**, 239, 241, 468
 analytical, **6.260–62**, **8.xliv**, 57–62

Geometry (*continued*)

- ancient Greek, **6.257**
- Aristotle on, **6.454**
- axioms of, **3.189–90, 4.486, 544–45, 5.292–93**
- and birth of metaphysics, **5.325**
- branch of mechanics, **8.95, 383**
- demonstration in, **3.14, 5.286**
- diagram observation in, **6.187**
- elementary, **8.lxvii, 271, 273**
- elliptic, **5.398, 8.29, 93, 273, 366, 382, 425**
- empirical nature of, **4.544–45**
- Euclidean, **5.325, 380, 395, 398, 409, 450**
- Euclidean vs. non-Euclidean, **8.xxxii, 25–29, 93, 108, 271–73**
- exact vs. schematic drawing of a line, **6.258**
- geometrical addition, **3.269–70, 367–69**
- geometrical progression, **8.51, 52**
- geometric representation of algebra, **4.230**
- hyperbolic, **8.xxxii, 28, 93–94, 273, 366, 382, 425**
- icon of a triangle, **6.259**
- illustrative figures, **8.25, 26, 28, 29, 57, 58, 62, 90, 91, 92, 94, 106**
- imaginaries in, **8.91**
- imitated by metaphysics, **6.167, 203–4, 453**
- index in, **5.163, 380**
- and logic of relatives, **2.415, 417**
- modern, **6.172**
- modern, **8.18, 34**
- natural, **8.27**
- non-Euclidean, **2.416–17, 492, 4.231, 486, 546, 5.255–56, 8.xxxi, xxxii, xxxvii, lxvii, lxviii, 18, 271–74, 424–25, 446–47, 644–45**
- notation for, **6.357, 487–88**
- ordinal, **6.263–67, 472–73**
- parabolic, **8.xxxii, 27, 366, 382, 425**
- plane, **8.26**
- of plane curves, **6.372–76, 491–92**
- of points, **8.232**
- postulates of, **8.88, 89**
- presocratic, **6.203**
- projective, **6.70, 261, 263, 8.89–90, 92–93, 106, 273**
- qualitative— of the first order, **6.359**
- quantitative laws of, **4.2**
- quaternions in, **4.387–88**
- space as fiction of, **5.255, 293**
- its study to begin with theory of perspectives, **8.273**
- suggesting philosophical certainty, **8.109**
- teaching of, **8.lxviii.78**
- textbook, **8.xliii, xlv**
- See also* Curve; Line; Mathematics; Plane; Point; Ray; Ten-ray theorem
- George, Henry, **6.17–18**
- George, Leopold, **2.267**
- Georges. *See* Deligiannes, Georges
- Gerlach, Gottlieb Wilhelm, **2.75, 76**
- German
 - language, **8.1**
 - taste, **8.35**
- Germanicus, **5.27**
- German philosophy, **2.132, 133, 136, 137, 175**
- Germans
 - philosophy of, **1.456**
- Ghosts, **6.74**
 - apparition of, **6.61, 62, 74–81, 112**
 - their stupidity, **6.xxxiv–xxxv, 62**
 - See also* Hallucination; Telepathy
- “On the Ghosts in... Diffraction-Spectra” (item 10), **4.xxix**
- Ghost-stories
 - disbelief in, **6.103, 110–11**
 - explanation of, **6.102, 107, 111, 495**
 - four general facts explaining them away, **6.lxxix, 394**
 - meagerness of, **6.80, 113–14, 137**
 - proving nothing, **6.lxxix, 393–94, 499**
 - See also* Telepathy
- Giallopoulos, **8.299–300, 333**
- Gialópoulo, Demetrio, **8.455**
- Gibbens, Mary Sherwin, **8.373**
- Gibberish, **8.137**
- Gibbon, Edward, **4.577, 8.277, 416**
- Gibbs, Oliver Wolcott, **2.288, 4.xxiv, xxxv, 6.lvi, 8.lxi, 649**
- Gil, Alexander, **1.119–27, 128n, 129–30, 131n, 134, 136, 137n, 138–43**
- Gilbert, Grove Karl
 - his formula for prediction success, **5.136, 137**
- Gilbert, Humphrey, **5.27, 33, 37, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96–103, 104–6**
- Gilbert, William, **3.243, 339, 8.lxi, 262, 268, 279, 442, 639**

- Gilbert, William Schwenck
The 'Bab' Ballads, **8.456**
- Gilbert of Poitiers (Gilbert de la Porée, Gilbertus Porretanus), **2.277**, 464
Liber sex principiorum, **2.312**
- Gilder, Richard Watson, **8.lxxii**, lxxiii, 656, 657
- Gildersleeve, Basil L., **4.xxxix**, lxvii
- Gilman, Benjamin Ives, **4.xxxviii**, xlii, li, lii, 1, 408, 453*n*, 584
 "On Propositions," **4.lv**, 345–48, 584–85
 "Operations in... Number," **4.587**
- Gilman, Daniel Coit, **4.xixn**, xxiii, xxv–xxvi, xxxiv, xxxvii, xxxviii, xxxix, xli, xlii, xlvi, xlvi–xlix, lvii–lix, lx, lxi, lxii–lxv, lxvi, lxvii, lxviii, 1
- Ginn and Company, **8.xlii**, 548
- Giotto, **5.27**, 35
- Girel, Mathias, **8.ln.42**
- Giving
 as triadic relation, **6.174–75**
- Gladstone, William Ewart, **1.21**, **5.27**, 33, 36, **8.262**, 639
- Glaisher, James Whitbread Lee, **3.132**
- Glassy essence, **8.lxxxviii**.109, 165, 400–401
- Glauber, Johann Rudolf, **1.51**
- Gluck, Christoph Willibald, **5.27**, 33, **8.262**
- God, **2.123**, 135, 138, 436, **8.347–48**, 411
 and absolute, **2.110**, 135
 allegiance to, **8.240**
 beginning and end of the universe, **6.li**, 173–74
 Berkeley on, **2.480**, 482
 as creator, **2.434–35**
 creator of relations, **5.287**
 delighting in evil, **8.410**
 development of, **8.xxxvi**, 22
 evolved out of Nothing, **5.xxxvii**
 existence of, **3.306–7**, 312
 father governing universe, **8.126**, 389
 Hegel on, **2.133**, 142
 and intelligibility of universe, **5.285–86**
 johannine conception of, **8.184–85**
 as love, **8.xci**, 347–48
 monistic view of, **8.xxxiii**
 and morality, **3.321**
 Most High, **8.196**
 nature of, **1.37–40**
 necessitarian conception of, **8.lxxix–lxxx**, lxxxv
 his omniscience, **5.xlvi**, 228–29
 as one of three worlds, **1.83**
 paternal love, **8.lxxx**
 personal, **8.lxxxiv**, 156
 personal creator, **8.155**
 purposes of, **8.lxxviii**
 reality as thought by, **5.222**
 Slanderer of, **8.184**, 410
 Spencer's Unknown, **6.398**
 Supreme Love, **8.410**
 theory of his existence, **5.xlvi**, 228–29
 and the three categories, **6.176**
 as universal principle of motion, **5.257**
See also Being; Creator; Deity; Divinity; Religion; Theism
- Gödel, Kurt Friedrich, **8.xlii**.30
- Godfrey de Bouillon, **5.27**, **8.268**, 444, 643
- Godin, Louis, **4.372**
- Godkin, Edwin Lawrence, **8.429**, 529, 530*n.4*, 626
- Godwin, Earl of Wessex, **5.28**
- Goethe, Johann Wolfgang von, **1.21**, **2.134**, **5.28**, 33, 35, **8.262**, 278, 279, 369, 639
 Faust, **2.142**
- Golden Rule, **8.xci**, 185
- Goldsmith, Oliver, **8.277**
- Good
 absolute, **2.111**
 in life, **2.126**
- Goodness, **1.4**
 agathos, **8.410**
- Good Samaritan
 parable of, **8.97**, 383
- Good sense, **6.64**, 388, 391, 393–94, 496, 499, **8.22**, 282
See also Common sense; Instinct
- Good-will
 love and affection, **1.15**
- Gordon, Charles George, **8.262**, 442, 639
- Gore, J. Howard, **8.492**
- Gorgias of Leontini, **2.140**
 "True Gorgias" (imitation of Platonic dialogue), **2.258–59**
- Gospel, **8.191**
 of Christ, **8.189**, 410
 of enlightenment, **8.418**
 of Greed, **8.xcii**, 189, 410
 of greed vs. of Christ, **8.xcii**
 of John, **8.xci**, xcii, 184, 185, 198, 410

- Gospel (*continued*)
 of Mark, **8.198**
 of relaxation, **8.433**
 of work, **8.244, 433**
See also Biblical references
- Gothic architecture
 and the spirit of scholasticism, **2.465–66, 467**
- Gouge, Thomas A., **6.441**
- Goujon, Jean, **5.28, 35**
- Gould, Benjamin Apthorp, **8.46, 376, 488**
- Government
 defined, **1.146**
 role of, **1.149, 151**
- Gracchi, The, **5.28**
- Gradgrind, **8.188, 411**
- Graduate Philosophical Club of Harvard, **8.389**
- Graham, George F., **1.17**
Synonyms, **1.18**
- Graham, James Robert George, **8.280**
- Graham, Robert H., **8.491**
- Graham, Thomas, **4.105, 564**
- Grammar, **4.247, 248**
 deceptions of, **3.265, 363**
 formal, **2.57**
 vs. logic, **2.430–31**
 philosophy of, **2.321**
a priori, **5.306**
See also Language
- Grammar, Logic, Rhetoric
 general or universal, **1.175, 274, 304**
- Grant, Ulysses S., **5.28**
- Graph
 existential, **6.xlv, 425**
 Kempe-style, **6.xlv, 43–45**
 relational, **6.xlv, 43–46, 269–70**
See also Diagram
- Grassmann, Hermann Gunther, **3.238–39, 4.572, 5.34, 224**
 “Die Mechanik,” **4.182n, 576**
 “Die Mechanik nach den Principiender Ausdehnungslehre,” **3.238**
- Grassmann, Robert, **4.184, 204n, 406, 8.lxvn.76, 379**
 his algebra of logic, **4.182n**
Begriffslehre, **4.182n, 572, 573, 574, 587**
- Gratry, Auguste Joseph Alphonse, **1.163, 205, 3.304, 4.444**
Logique, **3.304n, 4.589**
- Gravesande, Willem Jakob, **2.218n**
- Gravitation, **8.18, 22, 110, 161, 399**
 “On Gravitation Survey” (P 281), **5.xxii**
- Gravity, **3.205, 8.78, 352**
 absolute, **4.158, 566–67**
 absolute force of, **8.xlv**
 absolute value of, **6.lxviii, 348, 479**
 acceleration of, **5.275**
 an acceleration, not a force, **6.lxvi**
 acting at a distance or through a medium, **3.164–65**
 at Ann Arbor, **6.302**
 Arctic work, **5.xxxviii, xxxviii**
 at Cornell, **6.302**
 determination at Allegheny Observatory, **5.1–8**
 determination at Ebensburgh, **5.8–16**
 determination at Fort Monroe, **5.xxi, 436**
 determination at Key West, **5.xxx**
 determination at York, **5.16–23**
 determination of, **4.xxviii, xxx, 79, 80–81, 148–51, 157–60, 358–60, 363, 366–68, 369–73, 376, 530–34, 541–43, 563–64, 566–67**
 of earth, **5.388**
 European determination of, **6.26–27**
 existence of, **3.31**
 expressed in logarithmic seconds, **8.xxviii–xxix**
 at Fort Conger, **6.242**
 gravimetric survey, **5.xxviii, 149**
 vs. gravitation, **6.lxvin.44**
 at Ithaca, **8.xxviii**
 laboriousness of its determination, **5.xxxii**
 in logarithmic seconds, **6.lxvii**
 at Madison, **6.302**
 and pendulum experiments, **4.148–51, 363, 369–76, 541–43**
 relative, **4.157, 566, 6.289, 290**
 relative vs. absolute, **8.lxii**
 residual, **5.xxxi**
 at the Smithsonian, **6.lxviii, lxviii.50, 302**
 stations for determination of, **5.xix, xxii, xxiii, xxx, xxxi, 116–20, 436**
 value of g, **8.lxii**
 at Washington, **6.242**
See also Gravity determinations; Noddy; Pendulum

- Gravity determinations
 absolute, 6.279
 absolute vs. relative, 6.lxvi–lxvii, 278, 281, 479
 in Ann Arbor, 6.276–77, 298, 333–34, 342, 346
 and atmospheric effects, 6.279, 294, 295, 301–9, 466
 coefficient of expansion error, 6.278–79, 467
 corrected times, 6.339
 correction for expansion, 6.294, 295, 299–301
 correction for flexure, 6.lxviii, 294, 295–99
 correction for inclination of knife-edge, 6.lxviii, 294, 295, 340–41, 485
 correction for pressure, 6.278
 correction for rate, 6.294, 295, 341–43
 correction for temperature, 6.278, 293–94, 341
 correction for tide, 6.294, 295
 and descent of the arc, 6.310–26, 344, 483
 description of stations, 6.275–77
 effect of temperature, 6.322–23
 at Fort Conger, 6.245, 462, 467
 in Hoboken and Kew, 6.348
 in Ithaca (Cornell University), 6.275–76, 294, 299, 337–38, 342, 346, 347, 475, 485
 list of *a priori* corrections, 6.294–95
 in Madison, 6.277, 299, 335–36, 342, 346, 347
 mean correction for elevation, 6.292
 mean pressures for each station, 6.303
a priori and *a posteriori* corrections, 6.lxix
 reduced station numbers, 6.289, 290, 291, 480
 reductions in, 6.291
 residuals for each station, 6.292, 293*n*
 results of single swingings, 6.326–38
 in Washington (Smithsonian Institution), 6.275, 299, 327–32, 346, 348
 See also Atmospheric effects; Error; Gravity; Pendulum experiments
- Gravity research, 8.xli, xlv–xlvi, li–lii, lxii, lxiii
- Gray, Thomas, 2.104, 8.277
 “Elegy written in a Country Churchyard“, 3.274, 373
- Great men, 1.5, 13–16, 8.xl, 38
 biographical notes on, 5.39–53
 biography of, 8.lx, lxx–lxxvi, lxxi, 259
caption
 classification of, 5.35–38, 104–6
 in Comte’s calendar, 8.267–70, 444–45
 eminent vs. truly great men, 5.xxiv
 facing improvidence, 8.269–70
 heights of, 8.277–79
 Johns Hopkins course on, 5.xxiii–xxiv
 questionnaires on, 5.54–103, 431–32
 ranking of, 5.104–6
 selection of, 5.26–34
 study of, 5.xx, 426
 three hundred, 8.lxxv, 38, 258–66, 441–43, 448, 637
 See also Genius
- “Great Men of History” (sel. 43), 8.lxxvi, 637–42
 opening page, 8.259 *illus.*
- Greed, 8.411
 economical factor, 8.xcii, 186, 187
 evolutionary agent, 8.xcii–xciii, 186
 law of, 8.xciii
- Greed-god, 8.186
- Greed-philosophy, 8.188, 191
- Greely, Adolphus Washington, 4.xi, xx, 5.xxxviii, 6.xxx, xxxi, xxxin.6, xxxii, 216, 217, 285, 323, 458–59, 462, 464, 467, 469, 470, 476
 “Memorandum by the Officer Commanding the Expedition,” 6.xxxiii, 243–44
Three Years of Arctic Service, 6.219, 458
 See also Fort Conger; Lady Franklin Bay Expedition
- Green, Frederick
On the Law of Tort and Crime, 3.xxxiv
- Green, George, 4.100, 112, 6.310, 482
 “Researches,” 4.564
- Green, Nicholas St. John, 3.xxxiv, xxxv
 life and work of, 3.208–10
 and origins of pragmatism, 3.xxx–xxxii
 “Proximate and Remote Causes,” 3.xxxiv
- Green, Thomas Hill, 6.499, 8.41, 372
- Greene, Dascom, 8.lxi, 493, 630
- Greenlee, Douglas, 6.441
- Greenough, Henry, 8.376
- Greenough, Horatio, 8.376
- Greenough, Louisa, 8.46, 376
- Greenough, Louisa Ingersoll Gore, 8.376
- Greenslet, Ferris, 6.lviin.36

- Gregory the Great, St., 5.28, 33, 38, 8.199, 262, 416
- Grimes, J. Stanley, 1.453
- Grimm, Jacob, 5.28, 33, 37, 8.262, 279, 639
- Grimm, Wilhelm, 5.28
- Grimshaw, Robert, 8.lxxx
- Grote, George, 5.417
- Grotius, Hugo, 5.27, 34, 36, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95–103, 104–5, 8.262
- Ground, 1.xxvi, xxx, 183, 327–32, 333–35, 478, 486, 503, 521, 523
 as abstracted self, 2.55
 coextensive with Prescindible, 1.328
 involved in comparison, 2.53
 marks of, 1.327
 reference to, 1.352–54, 473–80, 521–28, 2.53–56, 59, 82
 relation to Christian Trinity, 1.503
 three, 1.332
See also Reference; Representation; Sign(s)
- Ground-principle, 1.290
- Grove, William B., 6.425
- Growth
 coming from love, 8.xcii, 185
 by exercise, 8.xciii, 192, 193–94
 explained by chance, 8.125
 fact of nature, 6.63
 of habit, 8.387
 irreversible, 8.xxxix, liii, liiin.44, 244, 432, 433 (*see also* Reversibility)
 and law, 6.427
 of laws, 8.xl, 21
 main scientific fact, 8.122
 of mind, 8.xxxix, xl, lxxxix, 104
 as nerve property, 5.247
 not mechanically explicable, 8.101–2, 243–44
 of personality, 8.155
 primordial element of the universe, 8.liii, 155
 of principles, 6.393
 property of protoplasm, 6.195, 196, 215
 in protoplasm, 8.81, 158, 174–75
 sense of mental, 6.186
 in Spencerianism, 6.399
 tendency to, 8.101
 and thirdness, 6.212
See also Evolution; Tendency
- Grüniger, Hans (Johannes Reinhard), 8.1n.1, 363
- Gudermann, Christoph
 his functions, 5.269
- Guess
 instinct for, 6.lxxxiii
 method of turning it into a scientific hypothesis, 6.208
 at the sphynx’s secret, 6.lxxxiv, 208
 as starting-point of inquiry, 5.xxxix–xl, 296
 in using rule of false, 6.252
 “A Guess at the Riddle,” 5.xxxvi, 448, 449, 450, 6.lxxx, 194 *illus.*, 420, 8.xxxii, xxxv, xxxvi, xxxvii, xlviii, 594
 ambition and spirit of the book, 6.li, 168–69
 its architectonic scheme, 4.lxviii
 development of its argument, 6.175–76, 182, 188
 development of Peirce’s guess, 5.xxxviii–xlii, 454
 explanation of title, 6.lxxxivn.68, 438–39
 history of the text, 6.xxvii, xliv, xlvii, xlviii–li, lviii, lxxxi
 inaugurating a new period of philosophy for Peirce, 6.lxxxii
 nature of the guess, 6.xlvii, xlix, l, lxxxiii, 208, 439
 not a pure guess, 6.182
 statement of Peirce’s guess, 5.xli
 type of its readership, 6.169, 440
- Guessing, 1.8
- Guessing instinct, 8.100
- Gunter, Edmund, 8.48, 51, 378
- Gurney, Edmund, 6.xxxiv, xli, xliii, lvii, lxx–viii, lxxix, lxxxiii, 61, 74, 80, 81, 101–9 *passim*, 111–12 *passim*, 114–15 *passim*, 117, 119–32 *passim*, 134–35 *passim*, 137–40 *passim*, 426, 427, 430–36 *passim*, 499
 “Remarks on Professor Peirce’s Paper,” 6.xlii, 82–100, 102
See also *Phantasms of the Living*
- Gustavus Adolphus, 5.28, 33, 36, 8.262
- Gustavus I, 5.30
- Gutenberg, Johannes, 8.268, 444
- Gypsy. *See* Language, Romany

H

Habit, 4.561, 8.22

Habit (*continued*)

and action, 3.265, 362, 363
of action, 4.422, 553
of association, 4.249, 250, 553
and belief, 3.24, 75–76, 247, 248, 263–64, 337, 344, 346, 361–62, 4.43–44, 164
bond between ideas, 8.150
breaking up of, 8.xc, 103, 180, 180*n*.8, 193, 408
bundles of, 6.210
as category, 8.xcv
its central principle, 6.191
and chance, 8.xliv
cognition of the nature of, 4.421–22
departures from, 8.196
directed to ends, 6.193
essence of mind, 6.449
fixation of, 4.43–44
fixing tendencies, 6.l, 193, 393
formation of, 2.232–33, 4.lxx, 39–40, 42–43, 163–64, 553, 568, 8.lxxx, lxxxix, 105, 124, 129, 152, 153
general behaviour leading to stimulus removal, 8.180
and general conception, 8.xxxvii, 97, 104
and general notion, 2.5
governing inferences, 5.328
governing tokens, 5.162, 379
as a guiding principle of inference, 3.245, 342
habitual connection of ideas, 3.107
habitual connection of thoughts, 3.75
identity of, 3.265
induction as habit formation, 3.337
and inference, 4.164–65, 252, 568
inveterate, 8.106
Lamarckian evolution by, 8.xciii–xciv, 192–93
law of, 4.39, 8.lxxxix, 105, 129, 178, 387, 408
major premise as, 8.237
vs. mechanical law, 6.191
mechanical law as, 8.xc, 181–82
and mediation or thirdness, 5.xxxix, 293
as mental commissure, 8.193
mere inertia, 8.192
of mind, 3.66, 75, 245, 342, 5.111, 162
molecular explanation of, 8.lxxxix, 178–79
according to Murphy, 6.450

negative, 6.191
as nervous association, 2.232–33, 3.23, 247, 344
permanent relation, 6.210
physiology of habit formation, 3.337–38
as possible nerve property, 5.247
primary property of mind and matter, 8.182
produced by thought, 3.265, 363
protoplasmic account of, 6.198
its puzzle, 8.407
removing irritation, 4.46, 164–65
in representation, 3.66
as rule, 5.162, 343, 379
and second cosmogonic flash, 6.209
specialization of the law of mind, 8.151
strengthening of, 6.208, 209
as a tendency and statistical result, 4.lxix–lxx
tendency to, 8.xxxix, 110, 179, 181, 182, 387
transformation of, 8.415
its universality, 6.167
wearing out of, 8.129
See also Law; Mind; Thought

Habits

a kind of inference, 1.491
Habit-taking, 8.97, 104, 182, 282, 387
element active in the world, 6.xlix, l, lxxxiii, lxxxiv, 208
generalizing tendency, 6.xlix, 208, 393
and Lamarckianism, 8.192–93
vs. mechanical law, 6.191
and nerve matter, 8.lxxx, 81, 163
and nervous system, 6.190, 215, 448
neurophysiology of, 6.190–93, 449–50
in protoplasm, 8.lxxx, lxxxix, 158, 164, 175, 177–79, 181, 400
source of uniformities, 6.208
as third, 8.110
Hacking, Ian, 5.xxvi, 6.xlin.18, xlin.19, xlii, xliin.22, 435, 8.xcv, xcvi.119
Haecceitas, 2.277
Haecceity, 5.338, 389, 6.187
definition of, 6.455
Peirce's acceptance of, 6.lxxxi, lxxxii
pure secondness, 6.206
ultimate fact, 6.205

- Haeckel, Ernst Heinrich, 5.xli, 6.404, 503, 8.382, 386
 Hafiz, 5.28
 Hagen, Johann Georg, 3.379
 Hall, Asaph, 4.xxi, 8.280
 Hall, Edwin Herbert, 4.155
 Hall effect, 4.xlvi, 566
 Hall, G. Stanley, 4.xl, xlii, lxiii, lxvii–lxviii, 5.xxiv, 6.xxxv, lxxi, 434, 8.xxxv, *ln*.41, lxvi, 413, 539
 “Philosophy in the United States,” 3.xxxvi
 Hall, Trevor H., 6.426
 Hallam, Henry, 2.467
 Haller, Albrecht von, 5.28, 33, 38, 8.262
 Halley, Edmund, 8.269
 Hallucination
 borderland, 6.433
 forgetting of, 6.104–5
 genuine, 6.106, 143
 kinds of, 6.106
 memory of, 6.113
 probability of a coincidental, 6.108–9, 6.140
 time limit for its consideration, 6.128, 149, 430
 See also Ghosts
 Halsted, George Bruce, 4.509, 8.lix, lxvii, lxviii, lxviii*n*.77, lxix, lxx, 271, 445, 492, 645
 his translation of Lobachevsky, 8.273–74, 445–46, 447, 644
 “Boole’s Logical Method,” 4.592
 Hamilton, William, 1.73, 93, 253, 301, 2.105, 121, 133, 134, 279, 311, 341, 441, 449, 4.508, 5.352–53, 390, 391, 399, 401, 413, 449, 461, 467, 6.439, 8.32, 80, 191, 353, 368, 380, 388, 639
 on association of ideas, 2.307
 on breadth and depth, 2.74, 78
 on clear and distinct, 2.71
 on copula, 2.81
 on definition, 1.58
 definition of doctrine of Common Sense, 1.153
 on extension and comprehension, 2.70, 70*n*, 72, 78, 81
 failings of Hamiltonian school, 1.69
 on God, 2.135
 on hypothesis, 2.219*n*
 on inference, 1.215, 409
 on intension, 2.72
 on judgments, 1.251
 on logic, 2.116, 348
 on *a priori*, 2.107
 on proposition, 4.173
 on propositions, 1.483–84
 on scientific induction, 1.175
 on syllogistic logic, 1.294–98
 his system of notation, 1.224–25
 on universals, 2.81
 on various senses of absolute, 2.109, 110, 111, 112, 113
 view of representation, 1.323
 Discussions on Philosophy, 4.509, 592
 Discussions on Philosophy and Literature, 3.50
 Lectures on Logic, 2.71, 74*n*, 112, 219*n*, 3.4, 4.569
 Lectures on Metaphysics, 2.94, 110, 112, 219*n*
 The Works of Thomas Reid, 2.106, 115, 193*n*
 Hamilton, William Rowan, 1.294, 2.xlv, 362*n*, 413–14, 493, 5.28, 33, 37, 8.262, 269, 445
 on quaternions, 4.385, 467–71, 591
 Lectures on Quaternions, 4.586
 Hamiltonianism, 8.42
 Hammann, Johann Georg, 6.447
 Hampden, John, 1.104, 5.28, 33, 36, 77, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96–103, 104–6, 8.262
 Händel, Georg Friedrich, 5.28, 33, 35, 8.262, 442
 Hannibal, 5.28, 33, 36, 8.262
 Hantz, Jacob Muhlenberg, 6.xxix
 Hardy, Thomas
 inventor of nobby, 5.262
 nobby of, 4.515, 526
 pendulum of, 4.160, 568
 Harley, Robert
 “On Boole’s ‘*Laws of Thought*’”, 2.xxxiii
 Harmony
 celestial and living, 8.154
 teleological, 8.lxxxiv
 Haroun-al-Raschid, 5.28, 33, 36, 8.lxv*n*.76, 267, 444, 643
 Harper, William Rainey, 4.lxv, 8.lxxix*n*.100, lxxx, lxxxii
 Harper Encyclopedia of Science (1963), 4.566
 Harper’s Magazine, 6.28
 Harris, James, 5.401

- Harris, William Torrey, **2.xxv**, **xxvi**, **4.560**
 exchange with Peirce, **2.xxv–xxvi**, **xxxvi–xxxviii**, **xli**
 “Paul Janet and Hegel,” **2.xxxvii**
 “What Is Meant by ‘Determined’”, **2.xxxviii**
- Harrison, Frederic, **8.lxv**, **lxxi**, **267**, **444**, **638**, **643**
- Hart, John, **1.119**
- Hartley, David, **2.218n**, **336**, **3.2**, **5.454**, **8.84**, **98**
 mental chemistry, **2.481**, **485**
- Hartmann, Eduard von, **5.37**, **8.235**, **428**
- Hartshorne, Charles, **6.lxxx**, **441**
- Harvard College, **1.xviii**, **3**
 its Chapel, **1.xxxi**
- Harvard College Observatory, **2.xxii**, **xxiii**, **3.xxi**, **xxiv**, **227**
- Harvard Graduate Philosophical Club, **8.lxxv**, **lxxx**
- Harvard Philosophical Club, **4.xxxvii**
- Harvard University, **1.xxi**, **xxii**, **4.154**
 Harvard University Lectures of 1865, **1.xxi–xxii**, **xxx**
 Harvard University Lectures of 1869–70, **1.xxi–xxii**
- Harvey, William, **5.28**, **33**, **38**, **8.lxi**, **262**, **279**, **639**
- Haskell, Daniel C., **8.528**, **528n.3**, **530**
- Hassler, Ferdinand Rudolph, **3.xxi**, **xxii**, **xxiii**, **4.lxvn**
- Hastings, Oliver, **8.44**, **374**, **639**
- Hastings, Warren, **5.28**, **33**, **36**, **8.262**, **279**
- Hate, **8.410**
 Devil, **8.410**
 and love, **8.184**
- Hathaway, Arthur S., **4.lxvi**
- Hatred, **8.184–85**, **411**
odium theologicum, **8.240**
- Hauréau, Jean Barthelemy, **2.316**
Histoire de la philosophie scholastique, **2.312**
- Hausdorff, Felix, **8.391**
- Haüy, René Just, **8.277**
- Hawthorne, Nathaniel, **5.33**, **35**, **8.262**, **279**, **639**
- Haydn, Joseph, **5.28**, **33**, **35**, **8.262**, **639**
- Haydon, Thomas, **8.671**
- Hazen, William Babcock, **6.216**, **458**
- Hazlitt, William, **1.21**
- Head, Barclay Vincent, **8.467**
- Heat
 explanation of, **8.100**
 mechanical theory of, **8.165**, **167**, **204**, **268**, **384–85**
- Heaviside, William James, **4.358**, **6.353**, **487**
 “Preliminary Abstract,” **4.585**
- Hedge, Frederic Henry, **2.xxiv**, **8.135**, **392**
- Hedge, Levi, **8.46**, **376**
- Hedgecock, Thomas
 Hedgecock’s Quadrant, **2.357**
- Hegel, Georg Wilhelm Friedrich, **1.xxiv**, **xxviii**, **204**, **352**, **2.xxv**, **xxvi**, **xxxvi**, **115**, **117**, **154**, **155**, **156**, **238**, **336**, **4.lii**, **401**, **486**, **489**, **5.28**, **33**, **37**, **222**, **325**, **403**, **446**, **6.li**, **168**, **499**, **500**, **8.lv**, **42**, **124**, **195**, **262**, **389**
 against principle of excluded middle, **5.356**, **359**
 on being and nothing, **4.9**
 his capital error, **5.xxxv**, **225**, **225n**
 his categories, **1.xxv**, **xxvi**, **351**
 criticism of his philosophy, **6.179–80**, **444**
 definition of logic, **1.169**
 his dialectic, **5.221**, **281**, **356–57**
 his dialectical method, **6.180**
 dialectic of, **2.136**, **137**, **139–43**
 his error regarding logic, **8.200**
 failure of his system to remove doubt, **1.104**
 on the function of judgments, **1.351**
 glimmer of truth in, **8.109**
 his idealism, **5.280**, **445**
 Janet on, **2.135–43**
 logic of, **2.xxxvii**, **xxxviii**, **467**
 on natural tendency of thought, **3.255**, **353**
 on negation, **1.480**
 on ordinary reasoning, **2.250**
 organic system of, **2.141**
 as a pantheist, **2.133**
 phenomenology of, **2.139**
 “plagiarized” by Abbot, **8.245**, **246**, **435**, **437**, **438**
 on pure act, **2.138**, **142**
 on relations, **3.6**
 on starting point in philosophy, **2.189**
 his study of categories, **5.237**, **302**
 on syllogism, **2.252–54**
 his three stages of thought, **5.230**, **356–57**, **461–62**
 on truth and falsity, **4.241**
 unity of apperception, **1.256**
 the unity of being, **1.351**

- Hegel, George Wilhelm Friedrich (*continued*)
 his use of dilemma, 5.461
 his view of representation, 1.323
Aesthetics, 2.132, 133
Encyclopaedia, 2.132
History of Philosophy, 2.133–34
Phänomenologie des Geistes, 2.137
Philosophy of Art, 2.133
Philosophy of History, 2.132, 133
Philosophy of Nature, 2.132
Philosophy of Religion, 2.132, 133
Philosophy of Spirit, 2.132
Werke, 2.156, 252*n*
Wissenschaft der Logik, 2.133, 137, 138, 156, 4.560, 577, 587
- Hegeler, Edward Carl, 8.xxix, xxxiii, xxxiiin.13, xxxiv, xxxvii, xlii, xciv, 368, 369, 370, 401, 525
- Hegelianism, 1.212, 2.xxxvii, 69*n*, 132, 144, 145, 152, 153, 156*n*, 157, 192, 5.221
 and evolutionism, 5.261
 form of anacasticism, 8.195, 415
 its neglect of volition, 5.223, 230
 pasteboard of a philosophy, 8.195
- Hegelians, 3.6
- Heidelberg, 8.35
- Heine, Heinrich, 5.28, 8.277
- Heis, Eduard, 3.182, 183, 389, 473, 474, 475, 479, 479*n*, 481, 8.452
- Heller, August, 8.384
- Helmert, Friedrich Robert, 5.457, 6.iii, 348
 his discussion of Peirce's work, 6.486
- Helmholtz, Hermann Ludwig Ferdinand von, 2.xxx, 484, 485, 3.180, 385, 4.48, 546, 5.28, 33, 37, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96–103, 281, 6.xliv, 470, 8.xxxix, 93, 190, 235, 262, 278, 279, 382, 412, 428, 459, 623, 639
 "Über die Theorie der zusammengestzten Farben," 3.385*n*
- Héloïse, 2.312
- Helvetius, Claude Adrien, 8.185
- Henderson, Harold, 8.xxxiiin.13, xxxiiin.14
- Henderson, Thomas, 3.389
- Henri d'Andeli, 2.337
- Henri IV, 8.262
- Henry IV, 5.28, 33, 36
- Henry V, 5.28, 33, 36, 8.262, 638, 639, 640
- Henshaw, Henry Wetherbee, 8.xxviiin.5
- Heraclitus of Ephesus, 2.134, 6.445
- Herapath, John, 8.190, 412
- Herbart, Johann Friedrich, 2.57*n*, 76, 183, 184, 219*n*, 4.486, 8.95, 383, 392
 on thinking, 1.484
Lehrbuch zur Einleitung in die Philosophie, 2.219*n*
- Herbert, Hilary Abner
 his questions on Office of Weights and Measures, 5.155–60
- Herder, Johann Gottfried, 6.447
- Here-and-now-ness, 8.148, 397
- Hereditary character, 6.161
 and natural selection, 6.453
 of number, 6.xliv, 156, 438
- Heredity, 8.xl, 244
 absolute, 8.129
 and compulsion, 6.i
 development of its principle, 6.453
 its evolutionary action, 6.199
 factor of evolution, 8.xciii, 102, 192
 a gentle force, 8.22
 germ plasm theory of, 6.502
 hereditary criminality, 8.344
 in logic of relations, 6.438
 manifesting habit, 8.193
 principle of hereditary transmission, 6.l, 202
 relaxation of its principle, 6.202
 as second in biology, 8.110
 transmission of acquired characters, 8.243
- Hermann, Gottfried, 5.28
- Herodotus, 5.28, 33, 35, 8.262, 442
- Herron, Timothy, 8.396
- Herschel, John Frederick William, 1.163, 212, 2.285, 311, 3.182, 183, 389, 4.xxxii, liv, 350, 351, 352, 355, 360, 362*n*, 363*n*, 585, 5.412, 6.275, 291, 298, 474–75, 8.190, 248, 439
 on determinations of gravity, 4.365–69, 369–73, 376
 his objections to Peirce's system, 6.281
 his pendulum experiments, 4.361, 529*n*, 540
- Herschel, William, 2.287, 3.182, 183, 389, 473, 474, 475, 4.155, 5.xxxvii, 28, 33, 37, 8.lxvi, 262, 268, 639
- Hesiod, 6.l, 445
- Heterogeneity
 arbitrary, 8.101
 evolution toward, 5.251, 296–98
- Heuzey, Léon, 8.456

- Hevelius, Johannes, **3.182**, 389, 474
 Hexham, Henry, **1.132**
 Hiawatha, **5.28**
 Hickok, Laurens Perseus, **1.457**
 Hilbert, David, **8.xliii**, *xliii.n.30*
 Hilgard, Julius Erasmus, **2.xxi**, *xxxiii*, *xxxv*, **3.xxi**,
 4.xxi, *xxx*, *xxxi*, *xxxii*, *xxxiii*, *xxxiv*, *xxxv*, *lix*,
 lxii, *lxxviii*, 350, 352, 357, 585, **5.xxviii–xxix**,
 xxxviii, **6.xxvi**, 459, 461, 462
 letter to, **5.116**
 Hill, Aaron, Jr., **8.374**
 Hill, Abraham, **8.374**
 Hill, George William, **4.xxi**
 Hill, Thomas, **3.xxii**
 Hillard, George Stillman, **1.120**, *138n*
 “Hints toward the Invention of a Scale-Table”
 (sel. 14), **8.547–49**
 Hipp, Matthaeus, **4.159**, 568
 chronoscope of, **3.133**, 135, 136
 Hipparchus, **5.28**, 33, 37, **6.451**, 504, **8.250**, 262,
 442
 Hippocrates, **5.28**, 33, 38, **8.262**, 442
 Hirsch, Adolph, **3.136**, **4.54**, 517, 518, 561
 “Rapport de la Commission,” **4.593**
 “Rapport... sur la comparaison,” **4.593**
 Historiometry, **8.lxvn.74**
 History, **4.379**, 380, **8.193**
 in classification of sciences, **8.275**
 of Europe, **2.264–65**
 general, **8.295**
 of human thought, **2.469**
 of ideas, **8.17**, 21, 202–3
 of logic, **2.xxiv–xxv**, 310, 466, **3.3–6**,
 5.324–26
 of mathematics, **8.xxxviii**, 36
 medieval fables as, **5.324**
 of metaphysics, **3.252**, 350
 of mind, **8.xxxviii**, 36, 197, 412
 modes of evolution in, **8.197–205**, 202–3,
 417–18
 natural, **6.179**, **8.17**, 21, 365, 448
 as nutriment for logic, **5.225**
 of philosophy, **2.463**, 487
 in positivism, **2.45n**
 as redemption, **2.434–35**
 Renaissance, **3.3**
 of science, **2.339**, **3.276**, **5.xix**, **6.253**
 of thought, **8.412**, 415, 417–18
 verifiability of, **2.45n**, 130
 History of science, **8.lx–lxi**, 17
 its progress despite human improvidence,
 8.269–70
 Hiž, Henry, **5.xxxiii***n*
 Hjort, Peder, **2.316**
 Hobbema, Meindert, **5.28**
 Hobbes, Thomas, **1.103**, 163, **2.261n**, *477n*,
 5.67–68, 432, **6.168**, 397, **8.xxxviii.17**, 84, 98,
 268
 on names, **2.475–76**
 nominalism of, **2.475–76**
 pleasure principle of, **3.41**
 Hodgson, Richard, **6.lxxviii**, 147, *147n.2*, 434
 Höffding, Harald, **8.42**, 373, 428
 Hoffmann, Ernst Theodor Wilhelm, **8.281**
 Hoffmeyer, Jesper, **8.400**
 Hogarth, William, **8.277**
 Holbein, Hans, **5.28**, 33, 35, **8.262**
 Holden, Edward Singleton, **4.161–62**, **5.xxxi**,
 xxxix, **6.xxvi**, *xxvii*, *xlvi*, *li*, 277, 475
 “Note on... Binary Stars,” **4.568**
 Hollmann, Samuel Christian, **2.106**
 Holman, Silas Whitcomb, **4.105**, 564
 Holmes, Oliver Wendell, Jr., **1.xvii**, **3.xxx**, *xxxi*,
 xxxiv, **6.lvii**, **8.376**
 on sources of law, **3.xxxii–xiv**
 “The Path of the Law,” **3.xxxiii**
 Holt, Henry, **8.392**
 Home, Everard, **8.280**
 Homer, **1.20**, 23, 111, **2.134**, **5.28**, 33, 35, 76, 78,
 80, 82, 84, 86, 88, 90, 92, 94, 104–6, **8.262**,
 268, 305, 442, 444, 463
 Homogeneity, **8.101**
 criticism of presocratic notion of, **6.181**
 evolution from, **5.251**, 296–98
 in Spencer’s evolutionism, **6.446**, 501, 503
 Homologies, **1.487**
 Hood, Thomas, **1.118**, *136n*
 Hookway, Christopher, **5.xlvi**
 Hope
 forlorn, **8.23**, 383
 intellectual, **6.lxxxiii**, 206
 rule of, **6.206**, 456
 Hopkins, John Henry, **1.xxxi**, *xxxii*
 Hoppe, Janus
 Die gesammte Logik, **2.157**
 Horace, **5.28**, 34, 35, **8.262**, 277, 279, 639
 Horsford, Eben Norton, **1.xvii–xviii**

- Hoskins, Leander Miller, **8.432**, 433, 492, 493, 629
- Houser, Nathan, **8.xcvii**, 440
 “Peirce’s Algebra of Logic,” **4.573**
- Howard, John, **5.28**, 33, 36, **8.262**, 279, 639
- Howell, James, **1.132**
- Howland, Henry E., **6.lvi**
- Howland, Sylvia Ann, **2.xxiii–xxiv**
 will case of, **3.xxxiv**
- “How to Make Our Ideas Clear” (P 119), **4.7**, 422, 422*n*, 560, 588
- Hrushchov, Pavel Smitrievich, **5.483**
- Hubble, Edwin P., **8.425**
- Huber, François, **5.28**, 34, 38, **8.262**, 442, 639
- Huber, Johannes Nepomuk, **2.316**
- Huckleberry Finn, **5.230**
- Huggins, William, **2.288**
- Hugo, Victor, **1.455**, **5.28**, 33, 35, **8.262**, 639
- Hultsch, Friedrich Otto, **8.349**, 466, 467
- Humboldt, Alexander von, **5.28**, 33, 37, 77, 78, 80, 82, 84, 86, 88, 90, 92, 94, 105–6, 430, **8.263**, 279, 639
- Humboldt, Wilhelm von, **1.456**
 aesthetic view of science, **1.114**
- Hume, David, **1.103–4**, 220–21, 243–44, 339, **2.124**, 238, 336, 489, **5.33**, 454, **6.397**, **8.263**, 365
 on causality, **1.77**
 on cognition, **1.76–77**
 on ideas and sensations, **2.304**
 on image, **2.233–34**
 on mind and matter, **2.483**
 nominalism of, **2.484**
 phenomenalism of, **2.470**, 484–85
 on transcendentalism, **1.73**
An Inquiry Concerning Human Understanding, **4.561**
- Hunter, John, **5.28**, 33, 38, 77, 78, 80, 82, 84, 86, 88, 90, 92, 94, 104–6, **8.263**, 268, 277, 278, 279, 639
- Huntington, Charles Phelps, **8.375**
- Huntington, Edward Stanton (Ned), **8.44**, 375
- Huntington, Edward V., **4.xlvii**, 572–73
 “Sets of Independent Postulates,” **4.572–73**
- Huntington, Frederic Dan, **1.xxxi**
- Huntington, Harriette Mills, **8.375**
- Huntington, Helen Sophia Mills (Aunt Helen), **8.44**, 375
- Husni Pasha, **8.lxxii**, 299, 307, 308, 312, 313, 314, 326, 456, 657
 letter from Karolos Kalerges, **8.339–40**
- Huss, John, **5.28**, 33, 38, **8.263**, 268, 639
- Hutton, Frederick Remsen
 his chronometer, **5.4**, 13–14, 21
- Huxley, Thomas Henry, **4.liv**, **6.404**, 503, **8.242**, 431
- Huygens, Christiaan, **5.28**, 33, 37, **6.385**, 495, **8.lxi**, 100, 263, 384
- Hwang, Philip H., **8.387**
- Hyder Ali, **5.28**
- Hydrodynamics, **5.xxxi**, **6.xxxvi**, xxxix, xliii, lx–lxi, 310, **8.xlvi**, lii, 404, 407
 stream lines of air surrounding pendulum, **6.311 illus**
See also Atmospheric effects
- Hydrographic Office of the U. S. Navy, **3.xxi**, **5.xxviii**
- Hylopathy, **8.105**
- Hypatia, **5.28**
- Hypnotism, **6.381**, 394
- Hypostatization
 of relations, **6.187**
- Hypotenuse
 Pythagorean, **8.546–47**
- Hypothesis, **1.xxxiii**, xxxiv–xxxv, 7, 222, 267, 278, 283, 285, 292, 302, 362, 435, 440–42, 448, 452–53, 472, 481, 485–87, 493, 516, **2.2**, 45*n*, 175, 229, **5.295**, **6.166**, **8.xxxvii**, 17
 vs. actuality, **5.380**
 ampliative inference, **8.113**, 439
 and antecedent knowledge, **4.439–40**
 arbitrary assumption, **6.251**, 252–53
 Baroco as, **3.328**, 329
 and breadth and depth, **2.85–86**
 compared with induction, **3.116**, 330, 332–33, 335–38
 Comte on, **3.4–5**
 as concept formation, **3.337**
 condition of thought, **1.289**
 and constitution of universe, **2.265–66**
 correction of, **6.252**
 as denial of case, **3.328–29**
 as derivation of cognitions, **2.238–39**
 development and testing of, **6.207**, 248, 455
 effect of one of greater likelihood, **6.77**
 empirical, **1.213**
 of existence of reality, **3.27–28**, 47, 254, 352
 explaining syllogism of, **1.435**

Hypothesis (*continued*)

as explanation, 3.326–27, 328, 332, 334
 its explanatory role, 8.87–88, 119, 244
 false, 3.267, 278, 366
 finding the right one, 6.248–49, 250–52, 455, 8.95, 100–101
 formal, 2.3, 44
 and formation of emotion, 3.337
 forms of, 1.428, 436–38
 going beyond direct observation, 3.335–36
 gratuitous, 1.213
 ground of, 1.290
 hypothetical condition, 3.31
 hypothetical inference, 4.419–21, 422–24, 426–27, 458
 hypothetical proposition, 4.170, 243, 247–49, 254, 5.166, 169–70, 330, 332, 333, 439, 445, 458
 hypothetical science, 3.338
 hypothetical syllogism, 4.175, 253, 255
 hypothetical vs. categorical proposition, 5.330, 336–37, 338
 of individual fact, 8.113
 and induction, 1.266–67, 426–27, 431
 as inference, 2.44–46, 45*n*, 48, 220, 228, 268
 as inferring case, 3.325–26
 and information increase, 2.85
 involved in perception, 2.180
 and Kant, 1.451
 Kepler's vicarious, 8.290
 metaphysical, 3.38
 Mill on, 3.4–6
 nebular, 4.548
 Newton on, 4.419, 588
 possibility and unity of, 1.291
 premises of, 1.438
 probability of, 3.5–6, 330–31
 as probable argument, 2.217–18
 as probable inference, 2.44–46, 45*n*, 48, 268
 provisional, 6.248
 psychological aspect of, 3.337
 as reasoning from effect to cause, 3.332
 reduced, 1.338
 as reduction of manifold to unity, 2.218
 and resolution, 5.459
 in science, 3.4–5, 243, 338, 5.243
 scientific, 8.233

simpler, 8.383
 subsidiary, 2.45*n*, 344
 as *substitution of similars*, 2.446
 as subsumption of case, 3.329
 and syllogism, 2.43–48, 218
 testing, 3.331
 and theory, 3.334–35
 true, 3.278
 truth and falsity of, 1.470
 Turkish governor example, 8.455
 two figures of, 1.284
 validity of, 1.436, 439, 2.xli, 44, 217, 265–66, 4.423–24, 444–45
 a variety of intellectual inference, 1.491
 various meanings of, 2.218*n*–19*n*
See also Antecedent; Baroco; Deduction; Explanation; Guess; Induction; Inference; Judgment; Premise; Proposition; Reasoning; Syllogism
 Hypothetical proposition, 8.72
 ordinary vs. one stating actual state of things, 8.253
 Hypotheticals, 1.337
 Hypothetic inference
 form of suggestion, 8.235
 induction from qualities, 8.151
 mugwump and minister examples, 8.151–52, 397–98
 third class of inference, 8.151–52
 unconscious, 8.428
 unity of reactions in a general idea, 8.lxxxiii, 152, 398

I

I, It, Thou, 1.xxvii–xxx, 4, 8, 15, 45–49, 174
 Ibsen, Henrik, 8.277
 Icon, 1.xxxii, xxxiii, 5.xxxii, 295, 438
 advantage of its use, 5.190, 380
 in deductive reasoning, 5.164–65, 281
 definition of, 5.163, 245
 diagram as, 8.xxxvi, 24
 example of complex, 5.176
 as exhibiting analogy, 5.243
 as exhibiting relations, 5.164, 281
 formulae of algebra as, 5.xxxiii, 165, 170–74, 186–87, 380, 440
 in inference, 5.245
 in logic of classes, 5.186–87, 198

Icon (*continued*)

- mathematical diagram as, 6.259
- in notation for logic of relatives, 5.178
- in quantification notation, 5.180
- setting forth logical truth, 5.206
- sign marked by second-degenerate thirdness, 6.212–13
- of triangle, 6.259
- See also* Algebra; Analogue; Analogy; Copy; Diagram; Image; Likeness; Quality; Resemblance; Sign(s)
- Idea(s), 1.51, 61, 144–47, 2.142, 303, 440, 4.249
 - absolute, 1.167
 - abstract, 2.477
 - accidental foundation of philosophical systems, 8.84, 98
 - affection of, 8.lxxiv, lxxxii, lxxxiii, 148–50, 155, 397
 - archetypal, 2.481
 - association of, 8.16, 127–28, 150, 151, 238
 - association of ideas, 3.33, 62–63, 66
 - attraction for, 8.196
 - auricular, 8.24
 - brightened by surprises, 8.193
 - causally connected to represented object, 3.63
 - clear, 3.258–60, 271, 276, 355–58, 370, 4.486, 487
 - comparison of ideas, 3.90, 103, 105
 - comprehension of, 2.74–75
 - confused with word, 4.508
 - contents of, 3.258, 356
 - continuity of, 8.137–38, 150–51, 155
 - their continuous affectibility, 8.lxxiv, lxxxiii, 126
 - determined by another idea, 3.36, 69, 71, 72–74, 102
 - development of, 8.194, 203, 415
 - diagrammatic, 8.404
 - distinct, 3.258–60, 355–58
 - embodied, 8.155
 - and essence, 5.417–18
 - existence of, 3.63, 69, 73, 103
 - factor of their evolution, 8.103
 - flowing in time, 8.xxxii, 80, 128
 - of force, 3.xxx, 268, 270, 318–19, 366–67, 369
 - formation of, 3.104
 - general, 2.477, 483
 - of a general description, 8.569
 - generalization of, 8.lxxiv, lxxxii, 127–28, 129, 149, 365, 397
 - good in itself, 8.415
 - habitual, 8.398
 - habitual connection of ideas, 3.107
 - of hardness, 3.xxx
 - impression on the soul, 1.40, 61
 - individuality of, 8.136
 - innate, 1.7, 28, 79, 3.50, 318, 5.245, 6.xlviii
 - insistency of, 8.149, 153, 397
 - living, 8.154
 - love of, 8.185
 - material quality of, 3.62–63, 68
 - meaning of, 3.275, 374
 - metaphysical, 1.148
 - in the mind, 3.63, 68–74
 - modes of separation of, 5.238
 - momentary, 3.63
 - natural, 8.xxxi, xxxii, xxxvii, 25–26, 95
 - nature of, 3.66
 - new idea, 3.35–36, 40, 41
 - of nonexistent reality, 3.31–32
 - not discrete units, 8.lxxiv, 127
 - order of ideas, 2.304, 306
 - patentable, 8.51–52
 - Platonic, 2.471–72
 - practicable, 8.194
 - produced by sign, 3.67–68
 - of reality, 3.xxx, 271, 370
 - relative to first, second, and third person, 1.174
 - as representation, 3.62–63, 68
 - resemblance of ideas, 3.69–71, 73, 103–5
 - resembling, 8.86, 127, 149, 153, 154
 - rubbish or not, 8.24
 - self-reproducing, 8.104
 - and sensation, 2.304–6, 477
 - as sign, 3.68
 - of space, 3.318–19
 - spreading of, 8.lxxiv, lxxviii, lxxxii, lxxxiii, 126, 129, 136, 149, 150–51, 153, 392, 397
 - as states of consciousness, 8.lxxxii
 - sublimity of, 8.203
 - subsumption of ideas, 3.90
 - temporality of, 3.68–71, 72–75, 102, 103–5, 106
 - their three elements, 8.148, 149, 397
 - of time, 3.318–19

Idea(s) (*continued*)

true, 3.276
 vicarious, 8.137
 of weight, 3.xxx, 267–68
See also Association; Connection;
 Coordination; General idea; History;
 Welding

Ideal

as inward sentiment, 5.231
 realized by the universe, 5.286
 relation of a symbol, 1.476
 Royce's "ideal of ideals," 5.233
 Idealism, 1.82–83, 93, 111, 2.175, 191, 270, 8.xlii,
 xc, 18, 105, 232, 364, 408
 and cognizability, 2.238
 constitutive mark of, 2.181
 and existence of reality, 3.44–45, 56, 59
 of Hegel, 5.280
 Kant's refutation of, 8.xxxii–xxxiii, 80, 380
 on knowledge of external existence, 8.78
 vs. materialism, 8.43, 236
 moral, 5.231
 its motive, 5.281
 and nature of the real, 3.8–9, 59
 objective, 8.xxxix, xl, xciv, 106, 157, 364,
 391
 Peirce's own, 5.xli, 280, 281
 principle of, 6.446
 and representation, 2.439
 Schelling-fashioned, 8.135, 391
 and science, 8.234
 as a theory of reality, 2.165, 270
 tychistic, 8.180

Idealists, 1.180

Identification, 5.xxxiv

of indices in logical algebra, 5.192–97, 214,
 444

Identity, 1.225, 324, 500, 528, 2.12, 111, 148, 152,
 494, 4.186, 5.xxxiii

comprehension and extension of, 4.23–24
 copula as sign of, 5.352
 copula of, 8.30–31, 367
 defined, 2.60, 4.26
 definition of, 5.185, 191, 206
 and degenerate secondness, 5.300, 308, 455
 in degenerate thirdness, 6.212
 as dual relative, 5.213
 and equality, 2.68–69, 69*n*, 366–67, 445
 expressed by copula, 3.85

of feeling, 8.97
 of finite things, 2.152–53
 formula of, 5.170, 366, 367
 of ideas, 3.63
 identical proposition, 3.193, 196, 197, 203
 and inclusion, 4.23
 infinity sign standing for its formula,
 5.366–67
 law of, 1.227
 logic as science of, 3.92
 of the object of sensation, 3.49
 personal, 6.62, 8.lxxxiv
 principle of, 2.152, 308, 3.86, 91, 5.342,
 8.215, 217, 423
 property of, 5.185
 proposition of, 8.31, 367
 in quantificational logic, 5.440–41
 relation of, 6.364, 365, 368, 442
 in resemblance, 6.189–90
 rule of, 5.370, 371
 self-relation, 6.177
 sign of, 8.543
 of things, 2.149
 of two entities, 5.187, 441

Ignatius of Loyola, 5.29, 33, 38, 8.263

Ignorance

and action, 3.21
 beginning of philosophical inquiry, 8.243
 and belief in truth, 8.118–19
 chance based on, 8.120, 125
 as a condition of learning, 3.14
 as correlative to truth, 2.208
 discovery of, 2.162
 excusable, 8.88
 and experience, 3.32
 and final opinion, 3.79
 and probability, 3.296
 and self, 2.169, 203
 as vera causa, 8.87
See also Error

Ignoratio elenchi, 8.238, 429

Illation

illative relation, 5.335, 337–38, 459
 sign of, 5.371, 459
 transitiveness of, 5.342, 343
See also Copula; Inclusion; Streamer

Illative relation

sign of, 6.5, 158, 417

Illeism, 1.xxix

- Illicit process, **1.5**
 Illiteracy
 rainfall and distribution of, **3.170–71**
 Illumination
 interior, **3.242, 339**
 Illusion
 kind of hallucination, **6.106**
 “Illustrations of the Logic of Science,” **8.xxxiv**
 Image, **1.xxxiii, 62–63, 116, 274, 307**
 vs. actual perception, **2.235–36**
 aural vs. visual, **8.19, 24**
 concrete, **2.304**
 existence of, **2.233–36**
 formula as, **8.447**
 mental, **8.64**
 and perception of extension, **3.33**
 as singular representation, **2.233**
 succession of images in the mind, **3.63, 69, 71, 103**
 thought as, **3.46**
 See also Diagram; Picture
 Imaginaries, **8.17, 364**
 Imaginary, **6.372, 491**
 said of a pair of points in an Epicurean view, **6.173–74**
 Imaginary quantities, **8.382**
 their utility, **8.90–92**
 See also Distance; Real
 Imagination, **1.27, 37, 353n**
 aided by diagrams, **6.xxx**
 and deductive observation, **5.164, 281**
 and dissociation, **5.238**
 docile, **8.lxxi**
 vs. experience, **2.170, 479**
 as feeling, **3.54**
 first element of high reasoning, **8.290**
 forms of the, **1.55**
 imaginary object, **3.61**
 as mental phenomenon, **2.104**
 as mode of cognition, **2.162, 170, 204–5**
 muscular, **8.19**
 neurophysiology of, **4.42–43**
 poetic vs. docile, **8.290**
 producing fiction, **3.271, 370**
 and scientific hypotheses, **6.253–54**
 speculative thinking as, **4.43**
 of time, **8.80**
 world of, **5.xlvi, 164**
 See also Dream
 Imitation
 as kind of representation, **1.322**
 Immediacy
 blank, **6.397, 500**
 of firstness, **6.170**
 immediate affection of states of feeling, **8.147**
 immediate community of feeling, **8.148**
 immediate consciousness, **8.81, 137, 138, 150**
 immediate consciousness of time, **8.79, 80**
 immediate feeling, **8.138, 146, 154, 353, 396**
 immediate inference, **8.237**
 immediate knowledge, **8.xxxii, 78, 80**
 immediately present, **8.95, 103, 137, 149, 397**
 immediateness, **8.353**
 immediate perception, **8.xxxii, 78, 79, 138, 156, 353**
 immediate self-consciousness, **8.155, 156**
 immediate sensation, **8.148**
 immediate sense-impression, **8.353**
 vs. irresistibility, **8.353**
 Immensity, **1.49**
 Immortality, **6.440**
 distinct from question of future life, **6.64**
 doctrine of, **1.338, 493**
 and responsibility, **1.493–94**
 theory of, **1.500–502**
 See also Future life
 “Immortality in the Light of Synechism,” **8.lxxxii**
 Impenetrability
 absolute, **8.167, 404**
 of atom or molecule, **8.169**
Imperial Dictionary, **5.xliv, 465–82, 6.lviii**
 Implication, **1.342–43, 465–66, 479**
 material, **5.458, 464**
 material vs. strict, **8.252–53, 440**
 positive, **5.463**
 semisubstitutivity of, **5.463**
 strict, **5.439, 458, 460**
 Impossibility
 not evident, **6.253**
 Impossibility, absolute, **2.111**
 Impression, **1.76, 515–17, 519, 523–25, 2.177, 191**
 basis for listing great men, **8.278n.1**
 collections of, **1.473**

- Impression (*continued*)
 immediate, 8.397
 and quality, 2.52
 of sense, 1.159, 2.49, 127, 128, 191
 sense-, 8.353
 succession of, 2.166–67
 unity of, 2.49–51, 54
- Imputation
 making something a symbol, 1.477
 “On an Improvement in Boole’s Calculus,” (P 30), 4.184*n*, 187, 406, 561, 573, 587
- Impulses, 1.11
- Incest
 and moral sentiment, 6.387
- Inch
 English, 6.378
 millimeters in, 6.353, 487
- Inclusion, 2.xlii, xlvi, 360, 4.173*n*, 8.367
 algebra founded on, 5.107–8, 112–14
 comprehension and extension of, 4.23–24
 copula of, 5.107, 108, 8.xlvii, 30–31
 defined, 4.23, 26, 29, 30, 31, 32, 33
 and identity, 4.23
 as inference, 4.xlv
 notation of, 4.xlv
 proposition of, 8.31
 and quantification, 5.114
 relation of, 4.lii
 sign of, 5.110, 112, 174
 sign of in algebra, 4.182*n*
See also Copula
- Incognizable
 absolutely, 2.183, 191, 208, 210, 213, 238, 250, 470
 essentially, 2.190
 impossibility of, 2.190–91, 207, 208, 213
 inexistence of, 2.173, 177
 involving no error, 2.239
 meaninglessness of, 2.174–75
See also Inconceivable; Unknowable
- Impossibility
 relation of, 6.364, 365, 368, 369
- Incomprehensibility. *See* Unintelligibility
- Inconceivability, 8.242, 389
 of certain explanations, 8.liv
 of chance, 8.119, 121
 as stage of thought, 8.119
See also Unintelligibility
- Inconceivable
 absolutely, 2.6, 238
See also Incognizable; Unknowable
- Indagation, 6.386, 495
- Independence
 of feeling, 8.96
 and firstness, 8.86, 87, 109
 and Secondness, 6.171
- Independence, absolute, 2.111
The Independent, 8.lxxviii, 670, 671
- Indeterminacy, 8.179
 and chance, 4.552
 character of firstness, 6.181
 fact of, 6.205
 law’s origin, 6.207
 not subject to explanation, 8.87, 90, 101
 in the past, 6.208
 principle of, 6.202
 pure firstness, 6.206
 real, 4.486
 womb of, 6.209
- Indeterminism, 8.xcv
The Index, 8.xxxiii
- Index, 1.xxxii–xxxiii, 334, 469, 5.xxxii, 295, 438
 advantage of its use, 5.163–64, 379–80
 and argument, 2.58
 definition of, 5.163, 245, 379
 denoting premises, 5.182
 discovery of, 5.xlvi
 diversification of, 5.192–97
 in factors of the power, 5.196–97
 as focusing attention, 5.224, 243, 446
 identification of, 5.192–97
 of index, 5.186
 as kind of sign, 1.475–76, 480, 485–86, 495, 525
 in logical algebra, 5.164, 168–69, 174, 214
 in logic of classes, 5.185–86
 in logic of number, 6.158
 in logic of relatives, 5.177
 necessary in logic, 6.lxxxii
 notation convention for, 5.207
 in pair of relatives, 6.175
 in proposition, 5.224, 245
 with quantifiers, 5.183–84, 193–97, 201–3, 214–15, 443
 referring to individual, 5.xxxv, xlvi
 as representation, 2.56

Index (*continued*)

- sign marked by first-degenerate thirdness, 6.212
- subjacent, 8.55, 56
- subjacent letter, 5.115
- symptom as, 5.164, 379
- of token in algebra, 5.165, 174, 176, 185, 444
- unartistic sign, 6.213
- See also* Pronoun; Sign(s)
- Index-term, 1.484–85
- India Survey, 4.371–72, 529–30
- Individual
 - beliefs of, 3.25, 26–27, 250, 251, 253, 347–49
 - in Boolean calculus, 5.114, 177
 - and categorical propositions, 5.361
 - vs. community, 8.196, 203, 415
 - denoted by index, 5.xxxv, xlv
 - of endlessly infinite collection, 8.142–43
 - experience of, 8.lxxvii
 - graph lines standing for, 6.xlv
 - and haecceity, 5.389
 - influence of greater persons on, 8.183
 - latent, 8.116
 - logical notation for, 5.112
 - in logic of relatives, 5.115, 177, 180
 - physical world as, 8.179
 - reality of, 6.lxxx
 - relation embracing one element, 6.363
 - selfindividual, 6.365
 - survival of fittest, 6.201
 - taken as class, 5.186
 - temporal, 8.130
 - in universe of discourse, 5.112
 - See also* Community; Consciousness; Fact; Obstinacy; Privacy; Selfishness
- Individual, absolute, 2.390, 390*n*–91*n*
 - vs. community, 2.486
- Individualism, 2.xxviii, 8.34, 151, 153, 191
 - vs. agapasticism, 8.203–5
 - of early Christianity, 8.418
 - mechanical, 8.xcii, 189
 - and nominalism, 2.175, 486
- Individuality, 1.499, 8.xcii, 189
 - doctrine of individuals, 4.193
 - of ideas, 8.136
 - individual term, 4.194, 196, 203
 - pettiness of, 8.418
 - principle of, 4.180
- Individuals
 - determination of, 2.156
 - doctrine of, 2.389–91
 - as ideal boundary of cognition, 2.180
 - at one place at a time, 2.180–81
 - vs. singulars, 2.180
 - vs. universals, 2.474
 - See also* Particulars; Singulars; Universals
- Individuals (Particulars)
 - existence of, 3.93, 235–36
 - reasoning from particulars, 3.332
 - relations between, 3.93–94
 - See also* Generality
- Individuation, 2.175, 179, 436
 - as imperfection, 3.19
 - principle of, 3.235
- Individuation, principle of, 4.479
- Individuum*
 - signatum*, 2.391
 - vagum*, 2.391
- Indivisibility, absolute, 2.111
- Induction, 1.xxxv, 19, 180, 209–10, 264, 267, 269, 271, 278, 281, 283, 285, 289–90, 293, 302, 325–27, 362, 394, 405–6, 408, 413, 416, 423, 426, 428, 431, 441–42, 448–50, 462–63, 481, 485–86, 500, 2.2, 3, 43, 85, 175, 232, 4.lxix, lxx, 5.295, 6.166, 8.xxxvii, liv, lxx, 17, 95, 439
 - and abduction, 4.588
 - ampliative inference, 8.113–14, 115–16
 - and antecedent knowledge, 4.439–40
 - Aristotle on, 1.176, 265
 - Baconian, 5.296, 454
 - Baconian idea, 6.181, 446
 - Bacon on, 1.265–66
 - based on similarity, 3.314–15, 335–36
 - based on uniformity of nature, 3.314–16, 330
 - Bocardo as, 3.328, 329
 - and breadth and depth, 2.84–86
 - of characters, 3.330
 - classifying as, 3.332
 - compared with hypothesis, 3.116, 330, 332–33, 335–38
 - and computers, 5.xliv
 - its conclusions not absolute, 6.252
 - criticism of Lombroso's, 8.277–83
 - as denial of rule, 3.328–29
 - as derivation of cognitions, 2.238–39

Induction (*continued*)

empirical formulae based on, 3.333
 and enumeration, 1.178, 219
 enumerative, 2.43
epagoge, 5.407, 474
 and evidence, 6.252
 explained in terms of probability, 3.316
 explaining syllogism of, 1.429–30, 433–35
 force of, 8.116
 formal, 2.3, 43–44
 forms of, 1.179, 436–38
 as generalization, 3.326, 336
 general nature of, 3.116–17
 good example of, 8.279, 285
 ground of, 1.290, 413
 as habit formation, 2.233, 3.337
 as habit-setting, 8.151, 398
 Hamilton on, 1.175
 and hypothesis, 1.426–27, 431
 and hypothetical proposition, 2.174
 impugned by stoicism, 8.112
 inductive inference, 4.422–24, 426–33
 inductive reasoning, 4.lvi, 382, 420–21
 inductive thought, 8.201*n*.4
 infallible, 2.86
 as inference of rule, 3.325, 328–29
 involved in perception, 2.180
 Jevons on, 4.174*n*
 Kant on, 1.9
 and knowledge of God, 1.408
 law of, 1.209
 and law of causality, 1.223
 logic of, 4.lx, 238, 408
 Mansel on, 1.175
 mathematical, 5.444, 8.lxxv, 140, 390, 591–92
 Mendeleyev's, 8.285
 as method of modern science, 5.226
 Mill on, 1.219–23, 412, 4.174*n*, 429*n*, 440
 Mill's theory of, 8.32
 not supporting absolute exactitude, 6.454
 from ordinary experience, 8.78
 from particulars to generals, 2.45*n*
 and perception of relations, 5.288
 premises of, 1.438
 principle of, 3.86, 304, 305
 and probability, 4.427–33, 443
 probability of, 3.302–3, 315–16
 probable, 6.141

as probable argument, 2.216
 as probable inference, 2.44–46, 48, 268
 process of, 1.179, 206
 proportionate, 3.315
 psychological aspect of, 3.337
 from qualities (hypothetic inference as), 8.151
 and the question of the goodness of God, 1.405–6
 as reasoning from particulars, 3.332
 reduced, 1.338
 and relative frequency, 3.313–14
 as sampling, 3.312–13
 sampling principle, 6.205
 in science, 5.243
 scientific, 1.175–76, 463
 second form of, 1.432
 as self-corrective process, 4.lxix
 statistical, 3.316
 as statistical argument, 2.217
 and statistical deduction, 4.416–17
 and statistical research, 5.xxiii
 Stock's misunderstanding of, 6.273
 as substitution of physical signs, 2.446–47
 and syllogism, 2.43–48, 217–18
 theory of, 1.163
 three grand inductions, 1.332–33
 transfinite, 5.453
 true, 3.253
 truth and falsity of, 1.470
 two figures of, 1.284
 and uniformity in nature, 4.lxx, 440–41, 568
 and uniformity of nature, 1.415, 2.265–66
 unity of sensations under one general idea, 8.lxxxiii, 152
 and universal proposition, 2.174
 validity of, 1.430, 436–37, 439, 469, 2.xli, 44, 216, 265–66, 268–70, 279–80, 463, 3.116, 314–16, 330, 4.423–24, 435, 444–45
 a variety of intellectual inference, 1.491
 Whewell's theory of, 1.205–6
See also Bocardo; Deduction; Fermat, Pierre de; Hypothesis; Inference; Reasoning; Sampling; Syllogism; Validity
 Inertia, 8.18, 99, 167
 habit as, 8.192
 Inexplicability, 8.389

Inexplicability (*continued*)

absolute, **6.206**, 456, **8.156**
 criticism of, **6.247**, 252–53, **8.87–88**, 101, 105, 122–23
 impossibility of, **2.213**
 in Spencer's philosophy, **6.lxxvii**, 397–98, 500
See also Explanation; Unintelligibility
 Infallibilism, **6.454**
 Infallibility, **6.388**
 Inference, **1.176**, 313, 339, 383, 429–30, 441, 489, 491, 494, 513–14, **2.l**, 44, 185, 228, 245, 352, **4.408–9**, **8.lxxxiii**, 31
 ability to draw inferences, **3.242**, 338–39
 activity of mind as, **2.242**
 all by substitution, **2.446**
 ampliative, **3.332**, **4.426–27**, 430, 433, 445, **8.113**, 439
 analytic, **3.297**, 305
 and antecedent knowledge, **4.439–40**
 antecedent of, **3.203–4**, **4.170n**, 246
 apagogical, **4.426n**
 association as, **2.237**
 by association of ideas, **5.327–28**
 of belief, **6.354**
 Case in, **4.421–22**
 classification of inferences, **3.326**, 332, 336–38
 complete, **2.214–15**, **8.72**
 complex, **2.214–15**
 conclusion of, **3.244**, 245, 341, 342, **4.164**, 165–66, **170n**, 245–46, 253, 421
 conscious vs. unconscious, **8.l**, 235–39
 consequent of, **3.203–4**, **4.170n**, 246
 continuous flow of, **8.138**
 contraposition, **3.192–93**
 by contraposition, **4.174**, 175, 179–80, 477
 conversion, **3.193**
 by conversion, **4.177**, 179–80
 deductive, **1.268–70**, 281, **3.203**, 305, **8.439**
 determined by habit, **3.245**, 342
 diagrammatic representation of, **4.251**
 dialogism, **4.477**
 element of cognition, **5.246**
 entailment, **5.458**
 of equipollency, **5.413**
 from experience, **6.205**
 experiential and provisional, **8.114**, 115
 explanatory, **3.332**

from external to internal facts, **2.205–7**
 from external to internal world, **2.162**, 171
 Fermatian, **8.130–32**, 140, 145, 390
 figures of, **1.186**
 general form of, **2.220–21**, **3.195**
 grounds of, **1.186**, 279–81, 283
 guiding principle of, **3.245**, 281, 342
 and habit, **4.164–65**, 252, 568
 habit of, **6.356**
 hypothetical, **1.270**, 281, 283, 290, 426, 435, 471, **8.151–52**, 428
 hypothetical, **3.195**, 203
 hypothetical inductive, **1.291–92**
 icon of fact in, **5.245**
 illogical, **8.71–72**
 immediate, **1.268–70**, **3.192**, 196, 197, **4.168**, 174, 177, 247, 255–56, **6.273**, **8.l**, 237
 vs. immediate knowledge, **2.167**
 as inclusion, **4.xlv**
 incomplete, **2.214–15**
 inductive, **1.177**, 181, 184–87, 270–71, 281, 405, 426–27, **3.195**, 203, 302–3, 312–16, **8.32**
 involved in perception, **2.166–67**, 180
 James Mill on, **1.361**
 judgment as, **2.242**
 Kant on, **1.159**, 451
 kinds of, **1.183**, 268–70
 knowledge concerning antecedent, **4.434**
 leading principle of, **4.164**, 165–68, 246, 477, **5.329**
 logical, **2.175**, 182
 as logical form, **5.243**, 245
 logical principle of, **4.165–68**, 246, 477
 logical sequence, **6.273**
 material or scientific, **1.240**, 258, 264, 420–25, 428, 441, 467, 471
 vs. matter of fact, **6.273**
 mediate, **8.237**
 mediate cognition as, **3.317**
modus ponens, **4.xlv**, 242–43, 247, 251, 255, 424–25
modus tollens, **4.254–55**, 424–25
 necessary, **4.245–46**, 410, **5.165**, 331–34, 336–37, **8.71**, 152, 200
 and notation, **5.165**
 not essential logical movement, **5.107**
 numerically definite, **5.179n**

Inference (*continued*)

and observation, 3.335–36, 6.407
 of one belief from another, 3.75
 ordinary, 6.496
a particularis, 1.267
 from particulars to particulars, 8.30
 as a part of investigation, 3.48
 from parts to whole, 2.263, 268, 270
 in perception of space, 3.317
 perceptual, 8.428
 possibility of, 1.289
a posteriori, 1.181, 184–87, 267
 predestinate conclusion of, 4.164–65
 predicate and subject of, 4.170*n*
 premise of, 4.164, 165–66, 170*n*, 245–46, 253, 421
 premises of, 1.187, 217
a priori, 1.184–87, 267
 probability of, 6.255
 probable, 2.44, 46, 100, 266–68, 270, 3.279–82, 286–88, 298, 301–3, 305, 329, 4.li, 245, 382, 408–13, 414–15, 421, 427, 434, 451, 588, 5.243, 334, 8.113, 152, 200, 439, 468
 its procedure in the logic of number, 6.157–58, 438
 psychological validity of, 2.222–23
 reducible to Barbara, 3.323–24
reductio ad absurdum, 4.254, 424*n*
 related to symbols, 1.184, 280
 in representation, 3.64
 represented by arithmetical operation, 3.279
 Result in, 4.421–22
 Ricardian, 8.21, 365
 Rule in, 4.421–22
 its rule in logic of relatives, 5.191–97
 rules of, 1.412, 415
 from sampling, 8.113–14, 115, 116
 scientific, 4.382, 427
 and self-consciousness, 2.204
 in sensation, 3.52–54
 simple, 2.214–15
 simple consequence, 5.328–29, 330, 334
 spurious, 4.462
 statistical, 2.268
 as substitution, 4.174*n*
 as substitution of indices, 5.190
 suggestion as, 8.237

and syllogism, 3.191–94, 195–97, 323–29
 syllogistic, 1.385, 407, 409, 424, 511–12
 synthetic, 3.301–5, 324–29, 332, 336, 338
 table of, 1.181–82
 as term used by J. S. Mill, 1.408–9
 three classes of, 8.151
 transposition, 3.196–97, 4.347, 426, 479, 482
 unconscious, 6.496
 valid, 3.116, 191–92, 196, 244–45, 280, 282, 341–42
 validity of, 1.185, 240, 291, 433, 467, 2.xli, 214–17, 221, 265–67, 430–31, 4.21, 165–66, 246, 417, 426–27, 434–35, 444–46, 5.329, 332–34, 336–37, 8.71–72, 113
See also Argument; Argumentation; Calculus; *Cogito, ergo sum*; Conclusion; Consequence; Deduction; Dilemma; Fermat, Pierre de; Hypothesis; Hypothetic inference; Icon; Illation; Induction; Inquiry; Investigation; Logic; *Modus ponens*; *Modus tollens*; Premise; Reasoning; Syllogism

Infima Species, 1.178, 341

Infinite, 8.xxxix

continuously, 8.390–91

endless(ly), 8.140, 142, 394

vs. finite, 8.139, 140, 238

in geometry, 8.27, 28

innumerable, 8.140, 390, 394

mathematical, 8.17, 364

name, 8.86

passing through, 8.29

See also Distance; Magnitude; Multitude

Infinite, Infinity, 1.37–44, 48, 392

a category of the It, 1.530

an influxual dependency of quality, 1.39

as term added to Kantian categories, 1.91–92

three kinds of, 1.93–94

Infinitesimal, 8.395–96

difficulty of its conception, 8.139, 393

infinitieth, 8.145

instant, 8.146

intervals of time as, 8.lxxxii, 137–38, 396

moment, 8.lxxxiii, 154–55

Peirce's preference for, 8.145, 396

supposed by continuity, 8.lxxxiii, 145, 147, 149

- Infinitesimals, **1.43**
 Infinitude, **1.8**
 Infinity, **8.lxxv**
 Cantorian types of, **6.251**
 defined in algebra, **3.186**
 infinite set, **6.363**
 Newcomb on, **8.lxix**
 passing through, **6.263, 8.92–93, 106–7**
 as a point, **8.93**
 regions round and extending to, in ordinal geometry, **6.265, 266**
 saltus at, **8.93**
 use of its sign in logical algebra, **5.366–67, 463**
- Inflexion
 definition of, **6.492**
 in plane curves, **6.373–76, 491, 8.91, 382**
- Influence
 agapic, **8.205**
 anacastic, **8.199–200, 415**
 of approximate regularity on events, **8.120**
 of desire, **8.14**
 of dynamical laws, **8.94, 95**
 of eternal forms, **8.155, 465**
 of experience, **8.242**
 of feelings of neighboring atoms or nerve cells, **8.408, 409**
 of final causes, **8.111**
 of greater persons upon individuals, **8.183**
 of ideas on one another, **8.153, 154**
 of inborn conceptions, **8.109**
 of laws of mechanics, **8.xl, 100, 111, 120**
 of laws of mental action, **8.95**
 of modes of evolution, **8.197**
 of past on present, **8.15**
 spiritual, **8.157**
 through association, **8.15, 123**
 through suggestions of the past, **8.150**
 “On the Influence of the Flexibility” (P 253), **4.13, 593**
- Influx, **1.40, 44, 48, 54, 92–93**
 a category of the It, **1.530**
 term added to Kantian categories, **1.91–92**
 third necessary mode of dependency, **1.38**
 three kinds of, **1.94**
- Influxual dependency, **1.39–40**
 of quality, **1.41, 43, 530**
- Information, **1.277–79, 287–89, 302, 479**
 all possible, **2.175, 182**
 and breadth and depth, **2.79–80, 82–86**
 change of, **2.9, 59, 83–86**
 and consciousness, **1.491**
 final, **3.99**
 informed breadth and depth, **3.100**
 progress of, **3.37**
 as reference to interpretant, **2.59**
 state of, **3.100**
 of a term, **1.465, 467**
 See also Knowledge
- Ingoldsby legend, **6.119, 436**
- Inhesion
 feeling as subject of, **8.148**
- Inhibitibility, **8.13**
- Inhibition, **8.xxx, 13, 14, 16**
- Innate ideas, **1.7, 25–30, 79–82, 3.50, 318**
- Innes, A. Taylor, **6.426**
- Innocent III, **2.465**
- Inordination, **1.89**
- Inquiry, **8.233**
 aim of, **3.248–49, 346**
 beginning in doubt, **3.14**
 blocking its road, **8.liv, 123, 125, 389**
 ethics of, **8.lxxxiv, 345–46, 465**
 and experimentation, **5.381**
 guided to truth by reality, **6.lxxxii**
 and investigation, **3.28, 34, 35–36, 40, 41**
 learning to imagine, **6.254**
 method of, **3.28, 34, 35–36, 40, 41, 254, 352, 5.324, 6.248, 251, 8.liii, 243**
 as passage from doubt to belief, **3.23, 35, 247–48, 344–45**
 realist vs. conceptualist view of, **8.352**
 and settlement of opinion, **3.24, 40, 45, 248, 345**
 and settlement of questions, **5.227–28**
 as settling belief, **5.223**
 silencing it, **8.87, 389**
 and ultimate opinion, **5.222–23, 226–27**
 See also Belief; Inference; Knowledge; Opinion; Reality; Reasoning; Research; Science; Theory
- Insanity
 Lombroso’s notion of genius, **8.277, 279, 280–83**
- Insertion, **5.xxvii, 107**
 of additive terms, **5.185, 8.67**
 algebraical principle of, **8.xlvii, 210–11, 213, 215, 421**

- Insertion (*continued*)
 in existential graphs, 5.463, 464
 of expression in streamer notation, 5.376–78
- Insight, 8.156
 of women, 5.xxiv, 136
See also Intuition
- Insistency
 curve of, 8.149, 150
 of idea, 8.149, 153, 397
 law of, 8.149
- Insolubilia*, 2.261–63, 263*n*
See also Paradox
- Instant, 8.154
 continuously infinite series of, 8.134, 138
 finite gaps in series of, 8.134
 immediate consciousness of, 6.184, 186, 213–14
 vs. moment, 8.lxxxiii, 146
 point of time, 8.138
 polar sense of, 6.189, 190
 properties of, 8.lxxv, 130, 134, 390
 reality of, 8.390
 temporal individual, 8.130
See also Duration; Moment
- Instantiation
 principle of universal, 5.440, 443
- Instinct, 6.lxxix, 204, 205, 387
 origin of scientific ideas, 8.lxxxiv, 242, 346
 and predisposition for guessing nature's laws, 6.lxxxiii
 vs. reason, 5.327
 reasoning appealing to, 8.439
 for truth, 6.455
 vague, 6.273
See also *Il lume naturale* under Galilei, Galileo
- Institutions
 factor of their evolution, 8.103
- Instruction. *See* Teaching
- Instrument
 as third, 6.441
- Instrument makers. *See* Baudin, L. C.; Bond, George Phillips; Breguet, Louis; Byrne, John; Clark, Alvan and Sons; Darling, Brown & Sharpe; Frodsham, Charles; Gautier, Paul Ferdinand; Hardy, Thomas; Hutton, Frederick Remsen; Kater, Henry; Krille, Moritz; Negus, T. S. & J. D.; Pratt & Whitney; Repsold, A. & G.; Sellers & Co.; Stackpole & Brothers; Tiede, Christian Friedrich
- Instruments
 list of those needed for fieldwork, 6.476–77
See also Chronometer; Clock; Comparator; Kater, Henry; Micrometer; Noddy; Peirce pendulums; Repsold, A. & G.; Villarceau, Yvon
- Insurance, 8.139
 principles of, 6.18, 29
- Integral power, 8.140–41
- Intellect, 2.472
 determining belief, 5.327
 intellectual community, 3.284–85
 intellectual economy, 3.260, 358
 intellectual significance of belief and thought, 3.108
 intellectual value of idea, 3.107
See also Reason
- Intellection, absolute, 2.111
- Intelligence
 and brain disease, 8.282
 and design, 4.552
 its evanescence, 6.62
 individual, 8.203
 intellect, 4.47
 in nature, 8.244
 and nervous system, 4.40
 serving greed, 8.xcii, 186, 411
 and unity of thought, 4.552
See also “Intellectual” under Power
- Intelligibility, 8.liii, 232
 vs. conceivability, 8.119
 of nature, 6.392
 of process of nature, 8.23, 244, 383
 purpose of thinking, 6.206
 real, 6.443
 reason objectified, 6.179
 and synthesis, 6.187
 of universe, 8.19
- Intension, 1.187–88, 210, 340–46, 526
 quantity of, 1.273, 276
 union in, 1.227
- Intention
 first, 2.56, 68, 69
 second, 2.56, 68, 77, 156, 391
See also Comprehension; Term(s)
- Intercommunication
 between two minds, 8.156

- Intercommunication (*continued*)
 second branch of sociology, 8.448
See also Communication
- Interest
 incitement to attention, 8.13–14, 364, 408
- Internal Revenue Bureau, 5.xxix
 vs. Office of Weights and Measures, 5.159
- International Geodetical Association, 4.357, 373, 562
 Brussels meeting, 4.xxviii, 517
 Hamburg meeting, 4.xxxi
 Munich meeting, 4.xxviii, xxx
 Stuttgart meeting, 4.xxviii, 390
- International Geodetical Congress, 4.516–17
- International Geodetic Association, 3.xxv, xxvi, 6.lxxi, 421
- International Journal of Ethics*, 8.lv, lvn.52, lvi, lvii, 245, 433, 434, 627
- Interpolation
 in logarithmic computation, 8.53–54
- Interpretance
 reference to universal conceptions, 1.473
- Interpretant, 1.xxvi, xxx, xxxii, 486, 496, 498–99, 522, 2.xxviii
 of an argument, 2.58
 and mediating representation, 2.53–54
 reference to, 1.473–79, 503, 523–24, 2.54–56, 57, 59, 82, 162
 relation to Christianity, 1.503
 of symbols, 1.502–3
 as third, 2.55
 of a word, concept, symbol, 1.465, 466, 467
See also Sign(s)
- Interpretation
 of cognition by another cognition, 3.77
 rule of, 8.73, 561
 of sign by another sign, 3.76–77, 83
 of thought, 2.173, 208
See also Translation
- Interpreter, 2.53–54
See also Interpretant
- Intersection, 1.342
 of circles, 8.92
 of lines, 8.59, 60, 61, 62
 of rays, 8.106
- “Introductory Lecture on Logic” (item 56), 4.liv–lv
- Introspection, 8.148
 certainty of, 2.167
- in Descartes, 3.259, 357
 existence of, 2.171–72, 190
 or internal sense, 2.171–72
 internal sense, 6.186
 vs. intuition, 2.206
 as perception of internal world, 2.206
 and reduction to unity, 2.51–52
 rejection of, 2.xxxix, 205–7, 213
See also Cognition; Intuition; Self-consciousness
- Intuition, 2.173, 193ⁿ, 224
 axioms of, 1.31–33
 defined, 2.193–94
 definition of, 6.187, 448
 distinguished from mediate cognition, 2.200
 existence of, 2.xxxix, 164, 169, 170–71, 190, 204–5, 213
 feminine, 5.135
 of first principles, 8.23
 form of, 1.31–32, 156
 immediate cognition, 1.515
 impossibility of, 2.163–64
 intuitive recognition of, 2.164, 165, 170, 194, 200, 201, 204–5, 209
 Kant on, 1.156, 242, 247
 Kant’s notion of, 5.225
 of objective elements of cognition, 2.204
 object of, 2.164
 and perception, 2.166, 196–98
 quantities of, 1.39, 530
 and self-consciousness, 2.169, 201–4
 self-evidence of, 2.165
 of space and time, 6.187
 of subjective elements of cognition, 2.204–7
See also Cognition; Insight; Introspection; Self-consciousness
- Intuitive belief, 1.491
- Invention, 8.204–5
 patentable, 8.48, 52–54
 rule for, 8.52
- Investigation
 destined result of, 3.56, 81
 establishing belief, 3.58–59, 105
 final conclusion of, 3.17, 44, 47, 48–49
 final result of, 3.43, 56, 102, 305
 and increase of breadth, 3.89
 and method, 4.lv

- Investigation (*continued*)
 as a method of inquiry, 3.28, 34, 35–36, 40, 41
 as a natural procedure, 3.19
 parts of, 3.19, 48, 55, 60
 as passage from doubt to belief, 3.72, 78–79
 principle of, 1.154
 progress of, 3.273, 372
 right and wrong method of, 3.17–18, 19, 36, 41, 48, 72
 scientific, 3.27–28, 254–56, 352–54, 4.446
 and settlement of opinion, 3.16–19, 43, 55, 255–56, 352–54
 truth as object of, 4.48, 78, 400
 ultimate goal of, 3.273, 372–73
See also Inquiry; Knowledge; Reasoning; Research
- Involution, 2.xliv, 378, 445, 3.187, 188
 algebraic, 2.362
 in algebra of logic, 5.192–95
 arithmetical, 2.379
 backward, 2.401–5, 429
 elimination without, 5.198
 forward, 2.404–5
 logical, 2.377–79
 ordinary, 2.401–5
See also Multiplication
- Irenica, 8.190, 412
- Irish Famine, 8.46
- Irregularity, 6.199
 and conscious state, 8.81
 of events, 8.111, 120
 explainability of, 8.122–23
 of laws of nature, 8.117–18
 law's origin, 6.207
 not requiring explanation, 6.457
 principle of, 6.202
 source of large numbers, 8.391
 uninteresting, 6.207
- Irresistibility, 8.353
- Irreversibility
 of physical and psychical processes, 8.lxxxii
See also Growth; Process; Reversibility; Time
- Irritability
 nervous system function, 6.215
- Isaiah, 5.28, 33, 35, 8.198, 263, 415, 442
- Israel, Edward, 4.xxxi, 6.218, 244, 459, 460, 462, 464, 469, 470
 instructed by Peirce on pendulum use, 6.xxx, xxxiii, 216
 his work at Fort Conger, 6.217, 222
- It
 absolute, 1.165
 categories of the, 1.530
 the modus of the, 1.47–48
 and predication, 2.49
 as substance, 2.49, 55
 as what is present, 2.49
See also Category; I, It, Thou; Substance
- Iteration
 in existential graphs, 5.464
 in streamer notation, 5.378
- I think, 1.516
 “I think”
 ultimate interest of synthesis, 6.187
- J
- Jack-knife, 8.163, 177
- Jackson, Charles Thomas, 8.204, 205, 419
- Jacobi, Karl Gustav, 5.28, 33, 37, 8.263, 639
- Jacoby, Harold, 8.lix
- Jacquard, Joseph-Marie, 5.34, 8.263
 Jacquard loom, 6.72, 429
- James, Alice, 8.l
- James, Henry, 4.xxiiin
- James, Henry, Jr. (1843–1916), 8.l, 624
 and Metaphysical Club, 3.xxx–xxxii
- James, Henry, Sr. (the Elder) (1811–1882), 1.455, 8.xci, 411, 427
 on being, 2.433–34
 criticism of Swedenborg, 2.435
 on matter and form, 2.436–37
 on science and religion, 2.435
 terminology of, 2.437–38
Substance and Shadow, 8.185
The Secret of Swedenborg, 2.433, 3.xxxi
- James, Robertson, 3.xxxii
- James, William, 1.xxix, 2.xxiv–xxv, 3.xxxv, 4.xi, xxv, lxv, lxviiiin, 582, 5.xxv, xxx, xxxiii, xxxiv, xxxv, xxxvi, xxxvii, 6.xxxiv, xlv, xlviii.27, lxxvi, lxxx, 426, 430, 434, 448, 458, 8.xxxii, xxxvi, xxxviii.18, xlviin.35, xlix–li, lxx, lxxxii, lxxxiii.102, lxxxii, xcvi, 148, 178, 373, 376, 392, 396, 397, 398, 403, 407

- James, William (*continued*)
 his involvement in the Royce-Abbot affair,
 8.lvi–lvii *passim*, 434–38 *passim*, 628
 and origins of pragmatism, 3.xxix–xxxii
 review of his *Principles of Psychology*,
 8.xlix–li, *ln.41*, *ln.42*, 231–39, 427–29,
 624–26
 “Great Men, Great Thoughts, and the
 Environment,” 5.xxiii
- James I, 8.289, 452
- Janet, Paul, 2.137, 157*n*
 on Hegel, 2.135–43
*Etudes sur la dialectique dans Platon et
 dans Hegel*, 2.xxxvii, 132*n*, 135
- Janus
 temple of, 8.193, 414
- Jäsche, Gottlob Benjamin, 2.219*n*, 5.451
- Jastrow, Joseph, 2.xxx, 4.xxxv, xxxviii, xliii, li, lv,
 lxi, lxii, lxvi, lxvii, lxviii, 5.xxiv, xxv, xxvi,
 xxvii, 6.xli
 his color sense experiments, 5.134*n*
 his experiments on sensation, 5.xxv, 124–
 35
- Jeanne d’Arc (Joan of Arc), 5.26, 32, 36, 8.261,
 279, 639
- Jefferson, Thomas, 5.28
- Jenghiz Khan. *See* Genghis Khan
- Jenner, Edward, 5.28, 33, 38, 8.263, 268, 639
- Jennison, James, 1.120, 138*n*
- Jennison, Mary, 8.375
- Jennison, Timothy Lindall, 8.375
 Dr. Jennison’s school, 8.46, 375–76
- Jensen, William B., 8.450
- Jesus Christ, 5.28, 33, 38, 232, 260, 8.lxvi, 189,
 198, 240, 241, 263, 268, 347, 410, 639
- Jevons, William Stanley, 2.xxxiii, 74, 75, 4.1,
 171*n*, 183, 184*n*, 401, 406, 421*n*, 561, 589,
 5.225, 371, 6.428, 8.xxxviii.21, 30, 367, 379,
 543
 calculus of, 2.379–80, 385
 on dilemma, 5.356
 on inference as substitution, 4.174*n*
 on logic, 4.238, 509
 his logical machine, 6.xxxv, 65–66, 68, 428
 his modification of Boole’s algebra, 2.387–
 88
 on non-relative terms, 4.188
 on quantification of predicate, 5.352–53
Elementary Lessons in Logic, 3.4
- Principles of Science*, 4.569, 587
Pure Logic, 2.93, 368–69, 4.182*n*, 573, 587,
 593
Pure Logic, and Other Minor Works,
 8.xxxviii, 30–32, 367–68, 543
 “Recent Mathematico-Logical Memoirs,”
 4.lii
Studies in Deductive Logic, 4.lii, 238, 576
Substitution of Similars, 4.174*n*
- Joan of Arc. *See* Jeanne d’Arc
- Johanson, Arnold, 8.396
- John, St., 8.xci, xcii, 185, 415
 ontological gossamer vs. scribe of
 Apocalypse, 8.184, 198, 410
- John of Salisbury, 2.71, 195*n*, 312, 328, 464, 481,
 4.483, 8.268, 416
Metaphysicus, 2.71*n*
- Johns Hopkins Metaphysical Club, 4.xli–xlii,
 xlvi, xlix–l, li, 594, 5.xxiii, xlvi, 447, 6.xlviii
- Johns Hopkins Scientific Association, 4.593,
 6.xlvn.29
- Johns Hopkins University, 1.xx, 4.xxiv–xxv,
 xxxvi–lxviii, 155, 408, 5.xxxiv, xliv, 8.xxvii,
 xxxi, xxxiv, xliv, xlvi, lxv, lxxxii, 594, 637
 class on psychology of great men, 5.xxiii–
 xxiv
 course on logic of religion, 5.xlvi
 course on probabilities, 5.xxiv
 and mathematics, 4.xxi, xxxix, xli–xlii
 Peabody Institute, 5.xliii
 Peirce’s advanced logic class, 5.xxiv
 Peirce’s course on philosophical
 terminology, 4.lvi, lxi–lxii, lxiii
 Peirce’s course on psychology of great
 men, 4.lxi–lxii
 Peirce’s dismissal from, 5.xix, xxi, xxii,
 xxviii, xliv–xlv, 8.xxv, xxvi
- Johnson, Andrew, 2.xxi
- Johnson, Henry C., Jr., 8.lxxviii.96, lxxxviii.108
- Johnson, Philip C., 3.xxii, xxiii
- Johnson, Samuel, 1.20, 25–26, 30, 118, 8.263,
 278, 639
- Jones, William, 5.28, 33, 37, 8.263, 639
- Jonson, Ben, 1.122–23*n*, 120*n*, 121*n*, 124*n*, 127,
 129, 131, 140, 142
- Joule, James Prescott, 8.159, 165, 399, 402
- Jourdain, Amable Louis
Recherches critiques, 2.312
Journal of Public Law, 3.xxxiv

Journal of Speculative Philosophy, 2.xxv, xxvi,
xxxvi, 3.xxix, xxx, 8.lxxxiv, xc, 136, 182, 392

Journal of Speculative Philosophy Series, 4.xliv
Judgment(s)

abdicated, 2.74, 107, 208, 471
affirmative or negative, 8.86
analytic or explicative, 1.xxxiv, 245, 273–
74, 418
Aristotle on, 1.418
and belief, 2.171, 205, 3.247, 344, 4.43
categorical, 5.326, 330
cognition as, 2.179–80
and consistency, 1.167–68
consist of, 1.152
divided into two classes by Comte, 1.213
doctrine of, 1.243
error of, 5.123–24
of existence, 2.236–37
on externality of object, 3.33
as feeling, 3.54
final, 3.99
formation of, 3.19–20
form of, 4.421
functions of, 1.351–52, 5.235, 236*n*
and habit, 4.163–64
Hegel on, 1.351–52
hypothetical, 5.330
hypothetico-disjunctive, 1.253–55
inferred, 5.335
involving general conceptions, 2.470
involving inference, 2.242
Kant on, 1.158, 243, 245, 247, 251–53, 274,
351–52, 418
kinds of, 1.229, 245–46, 252–53, 256, 272,
288–89, 346
object of logic, 6.272
as a part of representation, 3.64
vs. perceptual conclusion, 8.235
performance of good-, 6.391, 498–99
a priori, 1.158
probable, 3.295, 5.236*n*
and proposition, 4.402
recognizing ideas bound in fact, 8.86
relation of ideas in, 3.90, 107
of the Sensible Heart, 8.189
and similarity of thoughts, 2.226
sober and sound, 8.153
special functions of, 1.28
statistical, 5.236*n*, 241

synthetic, 2.268

synthetic *a priori*, 3.303–4

synthetic or ampliative, 1.xxxiv, 245, 247,
273

as thought, 3.95

true, 3.78

unconscious or semi-conscious, 6.387

and variety of inference, 1.491

virtual, 8.236

See also Assertion; Conclusion; Kant,
Immanuel; Predicate; Premise;

Proposition; Subject

Julian, 5.28, 33, 36, 77, 79, 80, 83, 84, 86, 89, 90,
93, 95–103, 104–6, 433, 8.263, 268, 444, 638,
639, 640

Julius Caesar, 8.268, 279

Jussieu, Antoine Laurent de, 5.28

K

Kalerges

Karolos's last name, 8.304

See also Karolos Kalerges

Kallergis, Dimitrios, 8.458

Kalergis, Demetrius, 8.lxxiin.88

Kamensky, George, 8.649

Kant, Immanuel, 1.xxviii, xxix, xxxiv, 164, 186,
205, 207, 211, 217, 302, 346, 352, 2.77, 117,
137, 193*n*, 200*n*, 234*n*, 248*n*, 336, 3.xxxi,
4.xlviii, 483, 508, 547, 569, 5.xxxvi, xxxix, 28,
33, 37, 223, 232, 447, 6.168, 203, 214, 447,
454, 456, 8.17, 85, 203, 263, 279, 353, 369,
381, 395, 639

on absolute end, 5.401

on apprehension, 1.156

argument against positivism, 1.244

axiom of intuition, 1.31–33, 157

on axioms, 1.219

on the categories, 1.75–76, 91–94, 115, 153,
159, 243, 255, 351

on categories, 2.231, 4.xlviii, 487

his categories, 5.235–37, 8.17, 85

on causality, 1.220, 240, 245

and cognition, 1.75

on cognition, 1.158, 2.341

his conception of space, 5.225, 255

his conception of the manifold, 5.299, 304

on conceptions, 1.208, 244

Kant, Immanuel (*continued*)

on constitutive and regulative principles, 4.194
 on continuity, 8.143, 144, 394
 continuum or continuity, 1.157–58
 Copernican step of, 2.470–71
 deduction and induction, 1.9, 159
 on definition, 1.58–59, 274
 his definition of continuity, 5.xx
 dependence of his system on logic, 5.xxxv, 445–46
 his division of faculties, 5.298
 his doctrine of schemata, 5.258–59
 on empty concept, 5.400
ens rationis, 1.311
 on ethics, 5.420
 on existence, 4.403, 587
 on extension, 1.156–58
 on extension and comprehension, 2.76, 77, 78
 on faculties of mind, 4.555, 594
 on faith, 1.75–76, 78
 on forms of intuition, 2.199*n*
 on forms of mind, 2.157*n*
 on foundation of conceptions, 6.182
 his functions of judgment, 5.235, 236*n*
 the great sceptic, 1.103
 on hypotheses, 1.451
 on hypothesis, 2.45*n*, 219*n*
 on inference, 1.159, 451
 on innate ideas, 1.104
 as interpreted by Comte, 1.214
 on intuition, 1.156, 242, 247, 5.225
 on judgments, 1.158, 243, 245, 247, 251–53, 274, 351–52, 418
 and Kantism, 8.380
 his law of continuity, 4.194
 on limits of knowledge, 6.64, 427
 and logic, 1.162, 244–45, 256, 306, 311, 351, 412
 his logic, 5.224, 258
 on matter and form, 1.240, 242, 250, 257
 mistaken about precedence of synthesis over analysis, 6.449
 his nominalism, 8.352
 Peirce's early interest in, 1.2
 phenomenalism of, 2.470–71
 on *a posteriori*, 2.106–7
 on *a priori*, 2.106–7, 267–68

on reciprocity between thought and its object, 1.339
 his refutation of idealism, 8.xxxii–xxxiii, 80, 380
 on regulative hope, 6.206
 on representation, 1.208, 257, 323
 his reputation, 1.241, 244
 and revival of the science of logic, 1.360
 on self-consciousness, 3.50–52
 on self-consciousness in child, 2.167, 201
 on space and time, 1.156–58, 250–51
 on synthetical judgments, 4.xlviii
 on synthetic *a priori*, 3.303–4
 his system, 8.168*n*.5
 table of categories, 1.xxiv–xxv, xxvi
 table of judgments, 1.xxiv–xxv
 his terminology, 1.160, 241
 on thought *a priori* and *a posteriori*, 1.245
 thought reduced to *ens imaginarium*, 1.306
 on three divisions of mind, 6.183, 446
 on transcendentalism, 1.72, 240
 on trichotomies, 5.242, 449
 and unity of apperception, 1.281
 on universal proposition, 2.199*n*–200*n*
 on various meanings of absolute, 2.111, 113, 114
 on various meanings of abstract, 2.114, 115, 116
 and Whewell, 1.206
Anfangsgründe der Naturwissenschaft, 2.113
Critique of Pure Reason, 1.xviii, xxiv, xxvii, 58, 104, 156, 160, 217, 242–44, 247, 250–51, 346, 5.xlvi, 258, 445, 6.446, 8.80, 353, 380, 394
De mundi sensibilis, 2.116
Essay on the Mistaken Subtilty of the Four Syllogistic Figures, 5.258, 259
Introduction to Logic, 5.258, 451
Kritik der reinen Vernunft, 2.107, 112, 114, 137, 199*n*, 4.8, 193, 573–74, 587
Kritik der Urtheilskraft, 2.111
Logik, 2.107, 111, 113, 219*n*
Metaphysical Principles of Natural Science, 1.156
On the False Subtlety of the Four Syllogistic Figures, 1.xxxv
 Kantianism, 2.72, 148, 200*n*, 341, 348

- Kantcity
 property of continuum, **8.144**, 394, 395
 “On Kant’s Critic of the Pure Reason” (P 177),
 4.xlviii
- Kappa
 Peirce’s *New York Times* respondent,
 6.lxxvi, lxxvii, 406, 407–9, 505
See also King, Clarence
- Kapteyn, Jacobus Cornelius, **8.425**
- Karl. *See* Karolos Kalerges
- Karl of Württemberg, **6.421**
- Karolos Kalerges, **8.lxxii**, lxxiin.88, 316 *caption*,
 655
 his arrival in Bolos, **8.297**, 299, 455
 his brotherhood vow, **8.303–4**
 circumstances of his birth, **8.296–97**
 conversation with Fatmah, **8.461–62**
 conversation with Roshana, **8.324–27**
 departure from Salonike, **8.333–34**, 462
 dressed like a klepht, **8.315**, 323, 331, 335
 encounter with Fasl Ullah, **8.331–33**
 encounter with Husni Pasha, **8.299**, 308
 encounter with klephts, **8.311–12**, 458
 encounter with Thodores, **8.302–4**, 313–15
 at the house of Kyrgiakoulakas, **8.312–15**
 at the house of Panteles Maurokordato,
8.322
 Husni Pasha’s carriage, **8.309**, 459
 in Larissa, **8.304–8**
 letter to Husni Pasha, **8.339–40**, 657
 looking for a house in Prague, **8.334–35**
 marrying Roshana in a train, **8.336–37**
 at the monastery of St. Dionysius, **8.319**
 on Mount Olympus, **8.320–22**
 his mystical experience, **8.321**
 origin of his name, **8.458**
 his purchase of a carpet, **8.306–7**, 458–59
 his purchase of a horse, **8.307**, 308
 raid against Turks, **8.315**, 317
 reunited with Roshana in Vienna, **8.334**
 Roshana’s first abduction, **8.317–19**, 461
 Roshana’s second abduction, **8.335–36**
 speaking Romany, **8.325**
 his stay at Giallopoulos’s house, **8.299–302**,
 455
 talk with Roshana on matrimonial
 differences, **8.337–38**
 talk with Thodores on usage differences,
8.327–29
 travel to Salonike via Letochoro, **8.329–31**
- Kater, Henry, **4.355**, **5.153**, 438, **6.353**
 his pendulum, **6.241**, 469, 474
 pendulum experiments of, **4.148**, 150, 530
 pendulum of, **4.150**, 367, 369, 372–73, 515,
 529–30, 593
- Kean, Charles John, **5.28**
- Keats, John, **5.34**, 419, **6.liii**, **8.263**, 639
- Keely, John Ernst Worrell
 his motor, **8.195**, 414
- Keeton, Morris T., **8.403**
- Kehler, James Howard, **4.xxviiin**
- Kellogg, Day Otis, **8.429**
- Kelly, E. Robert. *See* Clay, Edmund R.
 (pseudonym)
- Kelvin, Lord. *See* Thomson, William (1819–
 1890)
- Kemal, Mehmed Namik, **8.459**
- Kempe, Alfred Bray, **4.xlvi**, **6.xliv–xlv**, **xlvn.29**,
xlvn.30, lv, lvi, **8.569**
 graphs inspired from, **6.43–45**, 424
 the impact of his “Memoir” on Peirce,
6.xlv
 “Memoir on the Theory of Mathematical
 Form,” **5.xlvii**
- Kepler (or Keppler), Johannes, **3.243**, 252, 339,
350, **4.419–20**, 489, **5.28**, 33, 37, 325, 408,
6.248, 470, **8.lxi**, lxvi, lxxi, 248–50, 263, 269,
 270, 279, 346, 418, 439, 445, 453, 465, 639,
 651–52
 biographical remarks about, **8.286–91**
 his fallacious reasoning, **5.352**
 laws of, **1.488**
 quoted, **8.270n.1**
 spelling of his name, **8.452**
De Motibus, **4.lv**, 382, 586, 588
See also Mars
- Keppel, Herbert G., **8.371**
 “Keppler” (sel. 49), **8.lxx–lxxi**, 651–52
- Ketner, Kenneth Laine, **5.xlivn**, **6.xxvn.2**,
xxxvn.9, **8.396**, 400, 433, 528, 528n.3, 530,
 649
- Keynes, John Neville
Studies and Exercises in Formal Logic,
5.173n, 355n
- Keyser, Cassius J., **4.xxxviiin**
- Khayyám, Omar, **6.427**
 quoted, **6.63**
- Kiernan, Thomas J., **8.660**

- Kiesewetter, Johann Gottfried, **2.76**
- Kinematics, **8.425**
- Kinesis, **5.275n**, 404
- King, Clarence, **4.351**, **5.451**, **6.lxxi**, **lxxvi**, **8.244**,
385, 413, 433
his theory of evolution, **8.xciii**, 102–3, 385
See also Kappa
- King, Peter, Lord, **8.372**
- King Philip (Metacomet), **5.29**, 430
- Kingsley, Charles, **6.87**, 150, 433
- Kirchheiss, (J. H.), **8.245**, 436
- Kirchhoff, Gustav Robert, **2.285**, 286, 288, **4.279**,
560, 577, **6.427**, **8.204**, 418
Vorlesungen über mathematische Physik,
3.270
- Kirchmann, Julius Hermann von, **8.436**
- Klein, Felix, **4.580**, **8.lxxxii**, 18, 274, 364, 366, 487,
644
his formula for plane curves, **6.375**, 492
- Klepphs, **8.458**
See also Karolos Kalerges
- Knight, Charles, **1.21**
Penny Cyclopaedia, **2.448**, 450
- Knowing
condition of, **1.27–28**
second department of mind, **6.183**
- Knowledge, **2.xxxviii**, **xxxix**, **xl**, 111, 115, 136
antecedent, **4.439–40**
categorical ingredients of, **6.182**
complete survey of, **8.85**, 99
criticism of Kant's view, **6.64**
development of, **5.229**
enlarged by syllogism, **5.344**
from experience, **5.226**
of external existence, **8.78**
of external things, **2.239**
fallible, **8.xxxiin.12**, 78
familiar, **6.496**
Francis Bacon on, **5.325**
in general, **1.28**
God's omniscience, **5.228–29**
immediate, **2.xxxix**, 138, 162, **8.78**, 80, 397
increased by *modus ponens*, **5.459**
increased by perception, **5.331**
increase of, **3.32**, 89, 117, 127, 131, 297,
4.72, 73–74
knowing, **5.298**
of language, **3.31**, 75
of meanings, **3.100**
measurement of probability of, **5.249–50**
mediate, **2.xxxviii**, **xxxix**, 138
of mind, **2.171–72**, **3.51–54**
and morality, **1.12**
not reaching excessive probability, **6.103**
object of, **2.472**
of one's own self, **3.54**
of ourselves, **2.162**
of the past, **8.137**
of possibility, **5.330–31**
a priori, **1.246**, **2.107**
and probability, **2.125**
probable, **3.100**
as a process, **2.138**
real, **3.68**
Roger Bacon on, **5.226**
and sheet of possibility, **5.332**
in signs, **3.33**
true, **3.57**
and truth of propositions, **5.372**
utility of, **4.73–74**
and wisdom, **1.4**
See also Cognition; Information; Inquiry;
Investigation; Omniscience; Proposition;
Research; Science
- Known
as mathematical monad, **6.270**
- Knox, John, **5.28**, 34, 38, **8.263**, 268, 442, 639
The History of the Reformation, **2.110**
- Kohl, Johann Georg, **1.456**
- Kölliker, Rudolf Albert von, **8.191**, 413
- Kopp, Hermann Franz Moritz, **1.96**
- Köprülü (or Köprili), Numan, **8.280**
- Korselt, Alwin, **4.xlvii**
- Kossuth, Lajos, **5.28**
- Krause, Ernst Ludwig (Carus Sterne), **8.414**
- Krause, Karl C. F., **1.164**
- Krille, Moritz
clock, **6.279**, 476
- Kroeger, Adolph Ernst, **2.154**
- Kroman, Kristian Frederik, **8.373**
- Kronecker, Leopold, **5.430**
- Krönig, August Karl, **8.190**, 412
- Krug, Wilhelm Traugott, **4.508**
- Kruse, Felicia, **6.442**
- Ktêma es aei, **8.33**, 369
- Kühnen, Friedrich, **5.452**
- Kuklick, Bruce, **8.lv**, *lvn.54*, *lviii.56*
- Kundt, August Adolph, **4.105–6**

- Kundt, August Adolph (*continued*)
 “Ueber Reibung und Wärmeleitung,”
 4.564
- Kyrgiakoulakas, Michales, 8.311, 315, 317, 322,
 329, 459
 his son Lia, 8.313–14, 315
- L
- Laboratory
 vs. church, 8.lxxxiv
- Lacaille, Nicolas Louis de, 3.389
- Lachmann, Karl, 1.21
- Lactantius, Lucius, 8.199, 416
- Ladd (Ladd-Franklin), Christine, 4.xxxviii,
 xxxix, xli, xlii, xlii–xliii, xlix, l, li, lii, lviii
 on Boole’s algebra, 4.406–7
 on copula, 4.421
 on multiplication, 4.330
 on possibility, 4.495, 570–71
 “On De Morgan’s Extension,” 4.330*n*, 584
 “On the Algebra of Logic,” 4.lx, 490, 493,
 587, 592
- Ladd-Franklin, Christine, 6.67*n*.2, 425–26, 429,
 8.xxxv, xlvi, xcvi–xcvii, 366, 379, 386, 391
- Lady Franklin Bay Expedition, 6.xxx*n*.5, 243,
 284–85, 323, 458–59, 464
 circumstances of, 6.xxx–xxxi
 heroic return of Pendulum No. 1, 6.xxxi,
 464
 Peirce’s instructions for operating the
 pendulum, 6.459–61
See also Fort Conger; Greely, Adolphus
 Washington; Pendulum experiments
- Laer, Peter van, 8.278
- Laertes, 8.277, 278
- La Farge, John, 8.lxxviii.95
- La Fayette, Marquis de, 5.28
- La Fontaine, Jean de, 5.28
- Lagrange, Joseph Louis de, 5.28, 33, 37, 40, 77,
 79, 81, 83, 85, 87, 89, 91, 93, 95, 104–6, 430,
 8.263, 279, 639
 Lagrangian equations, 3.219–21
 notes on, 5.39
See also Equation
- Lais of Hyccara, 5.28, 428
- Lalande, Joseph Jérôme Lefrançois de, 3.389,
 8.277, 278
- Lamarck, Jean-Baptiste, 8.xciii*n*.116, 192, 413
- Lamarckianism, 8.xciii–xciv, 18, 22, 103
 vs. Darwinianism, 8.102
 Spencer’s, 8.243
- Lamartine, Alphonse de, 8.278
- Lamb, Charles, 8.277
- Lambert, Henry, 8.377
- Lambert, Johann Heinrich, 8.379
Neues Organon, 2.107, 4.487
- Landor, Walter Savage, 5.28
- Lane, Edward W., 6.443
- Lane, Jonathan Homer, 5.438
 his comparison of pounds, 5.155
- Lanfranc, 2.312–13, 5.33, 38, 8.263
- Langley, Samuel Pierpont, 4.xxvii–xxviii, 5.1*n*, 4,
 426, 6.lxi, 277, 475, 498, 8.248, 386, 425, 439
- Language, 1.xxviii
 accidents of, 5.446
 acquisition by children, 2.168, 196, 202
 vs. algebra, 5.363, 464
 analytic and systematic, 5.237, 361, 372–73
 of Boolean algebra, 5.177
 in classification of sciences, 8.275
 conventional modes of expression in, 6.212
 conventions of, 2.488
 deceits of, 2.483
 deceptions of grammar, 3.265, 363
 for dependence relations, 5.362
 English, 5.306, 307
 forms of, 2.xxxix
 general rhetoric, 1.304
 German, 8.1
 Greek, 5.306
 imperfection of ordinary, 8.xxx, 69–70
 its intolerable prolixity, 8.70
 knowledge of, 3.31, 75
 Latin, 5.307
 main kind of representation, 6.213
 and meaning, 3.275, 374
 and medieval logic, 5.346
 mental, 2.321
 modern Greek, 8.454, 455, 462
 necessary element of, 3.96
 ordinary vs. logical, 5.169, 336, 341, 361,
 372–73
 as a public sign system, 2.xli
 of quantity, 8.349
 regulation of, 1.86–87, 90
 Romany, 8.325, 326, 462–63, 660, 665
 secondness in exaggerated, 5.301

Language (*continued*)

- system of symbols, **1.258**
- thought's grand vizier, **6.496**
- usage, **3.267**, **365**
- See also* Meaning; Pronunciation; Rhetoric; Synonymy; Truth
- Laplace, Pierre Simon de, **3.164**, **379**, **5.28**, **33**, **37**, **430**, **8.lxvi**, **263**, **268**, **353**, **388**, **468**
- probability, **1.395**
- Théorie analytique des probabilités*, **4.441n**, **589**
- Larkin, Martin
- The Rival Collection of Prose and Poetry, **3.7**
- La Rochefoucauld, François de, **5.30**
- Latraverse, François, **8.xxviii.7**
- Laurent, Auguste, **5.28**
- Lavater, Johann Kaspar, **5.28**, **33**, **35**, **8.lxv**, **263**, **639**
- Lavoisier, Antoine Laurent de, **5.28**, **33**, **37**, **381**, **8.263**, **279**, **639**
- on method in chemistry, **3.243–44**, **276**, **340**
- Law, **4.379**, **8.xxxix**, **lxxxix**, **17**, **21**, **100**, **294**
- absolute, **5.xxxvii**, **6.208**, **253**, **8.15**
- accordance of phenomena with, **5.293**
- approximate satisfaction of, **8.89**, **97**, **105**
- atomic emancipation from, **8.181**
- blind, **6.12**, **63**
- blind and inexorable, **8.lxxiv**, **lxxx**, **126**, **389**
- breaking up of, **8.18**
- and chance, **4.lxix**, **lxx**, **551–52**
- in classification of sciences, **8.275**
- complete reign of, **6.208**
- complete triumph of, **8.386**
- conformity to, **6.xlvii**, **207**
- of the conservation of energy, **4.2**
- criminal, **3.208**
- definition of, **6.456**
- departures from, **8.117**, **118**, **119**, **122**, **180**
- developed out of chance, **6.xlviii**, **207**
- of dynamics, **8.xxxvii**, **95**, **100**, **425**
- empirical, **3.317**, **4.430**, **544–45**
- evolution of, **5.xxxix**
- exact, **8.101**
- explanation of, **4.548**, **6.206–7**, **456**
- formal, **1.422**
- general, **3.332**
- vs. general formula, **8.154**
- of geometry, **5.255**, **292–93**
- of greed, **8.xciii**
- guessability of, **8.100**
- and habit, **4.39**
- immutable, **8.120**, **123**, **124**
- imperfect cogency of, **8.101**
- inviolable, **6.204**
- Kant's law of continuity, **4.194**
- legal pragmatism, **3.xxxiii–xxxiv**
- of love, **8.xci**, **xcii**, **xciii**, **xciv**, **xcvi**, **194**
- mechanical, **6.191**, **449**, **8.lxiv**
- of mechanics, **8.xxxi**, **xc**, **xcii**, **xciii**, **15**, **19**, **89**, **100**, **101**, **102**, **112**, **120**, **121**, **122**, **155**, **171**, **180**, **181–82**, **192**, **347**, **354**, **387**, **404**, **408**
- microcosmic, **6.386**
- natural history of, **8.17**
- of nature, **3.81**, **166**, **204**, **308**, **333–34**, **4.lxx**, **2**, **252**, **422–23**, **548**, **551–52**, **5.xxxvi**, **xlii**, **343**
- its nature, **6.63**
- of neurophysiology, **4.38–39**
- not perfectly obeyed, **6.204**
- Peirce's (fifth icon), **5.xxvii**, **xxxiiin**, **173–74**, **440**, **8.214**, **218**, **422**
- philosophy of, **3.xxxiii–xxxiv**, **xxxv**
- physical, **8.101**, **106**, **190**
- physical vs. mental or psychical, **8.lxxxiii**, **43**, **97**, **105**, **128–29**, **153**, **390**
- of physics, **4.547**, **548**, **553–54**, **6.191**
- prediction of new, **5.xxxvi**
- primitive, **8.87**
- psychical, **8.lxxiv–lxxv**, **105**
- psychological, **8.126**
- psychophysical, **6.201**
- vs. real facts, **8.89**
- as reality in physics, **5.288**
- requiring explanation, **8.liii–liv**, **101**
- result of evolution, **8.101**
- of science, **3.319**, **334–35**
- vs. science, **8.lxxxiv**
- scientific, **4.545**
- as second, **8.110**
- second element active in the world, **6.xlix**, **l, lxxxiii**, **208**
- and secondness, **5.293**, **295**, **301**
- of signs, **3.83**, **98**
- sources of, **3.xxxiii**
- statistical, **3.119**, **4.551**, **552**

- Law (*continued*)
 synthesizing, **8.400**
 unexplained in Spencer's evolutionism,
 6.lxx-vii
 universal, **1.56, 8.123, 125**
 in universal judgment, **5.236n**
See also Association, law or principle of;
 Axiom; Fechner, Gustav Theodor; Habit;
 Laws of nature; Mechanics, laws of;
 Theory
- Law, John, **5.28**
- Lawlessness, **6.207**
 absolute, **8.127, 390**
 or chance, **6.204**
- Law Magazine and Review*, **3.xxxiii**
- Law of mind, **8.xxx, xxxi, xxxix, lxxiv, lxxxii-lxxxiv, lxxxix, xcv, 13, 24, 97, 104, 105, 126-29, 136, 165, 408, 409**
 antedating existence of matter, **8.408**
 general formula of, **8.126**
 vs. law of physical force, **8.xxxi, lxxiv, lxxxiii, 146, 390**
 one or three, **8.392**
 and personality, **8.182-83**
 physiological domain of, **8.192**
 principle of accommodation, **8.180**
 principle of mental uniformization, **8.153**
 its restatement, **8.153-54**
 transitiveness of, **8.lxxiv, 128**
 its uncertainty, **8.153**
- "The Law of Mind" (sel. 27), **8.xxx, xxxvi, lxxiii, lxxv, lxxvn.93, lxxx, lxxxii, lxxxii-lxxxiv, lxxxv, lxxxvii, lxxxviii.107, lxxxviii, lxxxix, lxxxixn.110, xcii, 165, 165n.1, 185, 186, 203, 526, 579-84, 594, 595**
- "The Law of Mind [Early Try]" (sel. 25), **8.lxxiv, lxxxiii, 580, 584-85**
- "The Law of Mind [Excursus on the Idea of Time]" (sel. 26), **8.lxxv, lxxxiii, 581, 585-86**
- Lawrence Scientific School, **1.xvii, xx, 3.xxxi**
- Laws of nature, **6.xliv, 253, 8.xxxvii**
 distinct from law of mind, **6.69-70**
 evolutionary attunement to, **6.lxxxiii**
 experimental verification of, **6.204**
 followed by mother-wit, **6.lxxix**
 immutable in Spencer's mechanistic evolutionism, **6.398**
 inexplicable, **8.101, 123**
 intelligibility of, **6.37, 178**
 most important one, **6.256**
 natural history of, **6.166, 455, 8.21, 101, 365**
 not depended on in algebra, **6.69-70**
 origin of, **6.207-8**
 according to Pearson, **8.lxxxvii, 352**
 permanence of, **6.210**
 primitive, **8.87**
 regular relationships between, **8.125**
 results of evolution, **8.xxxix, 101**
 and thirdness, **6.178-79, 443, 444**
 verification of, **8.118**
- Lawyers, The, **2.352, 353**
- Lazelle, Henry Martyn, **3.164-65**
One Law in Nature, **3.164, 164n, 165**
- Lazzaroni, **1.xvi**
- Leading Principle, **4.164, 165, 166, 246, 477**
 of argument, **4.167**
 doctrine of, **4.168**
 logical, **4.168**
- Leake, William Martin, **8.458, 459**
- Learning, **4.555, 8.15, 152**
 art of, **6.16**
 and exercises, **6.11, 24-25, 32**
 genuine, **6.448**
 grounded on habit-taking, **6.215, 448**
 mental growth by exercise, **8.194**
 scientific, **8.346**
 sense of, **6.186, 189, 190, 214, 458**
 as transaction, **8.194**
See also Pedagogy
- Least squares
 method of, **1.348, 3.114, 123-24, 132, 136-37, 182, 185, 375, 380, 411, 5.123, 124, 131, 6.292, 292n.2, 8.117, 388**
 reduction, **5.309, 311, 316**
- Le Clerc, Jean, **2.106, 8.372**
- Lecoq de Boisbaudran, Paul-Emile, **8.451**
- Lee, Ann, **8.280, 281**
- Lee, Britannia, **8.462**
- Lee, Nathaniel, **8.280**
- Lee, Robert E., **5.28**
- Legendre, Adrien Marie, **5.28, 469, 8.272, 378, 446, 447**
 about the unprovable, **6.64, 247, 427**
- Lehmann-Haupt, Ferdinand Friedrich Carl, **8.467**
- Leibniz, Gottfried Wilhelm, **1.66, 103-4, 170, 230, 356, 2.71-72, 107, 138, 185, 4.591, 5.xlii,**

- Leibniz, Gottfried Wilhelm (*continued*)
 5.28, 33, 37, 255, 404, 6.446, 450, 471, 472,
 8.lxi, 37, 263, 370, 379
 on clearness and distinctness, 3.259–60,
 357–58
 on definition, 3.260, 357–58
 his law of identity, 5.441
 on laws of nature, 3.203
 Leibnizianism, 5.258
 ultra-Leibnizian perception, 8.238
Nouveaux Essais, 2.218*n*
- Leipzig Academical Philosophical Club, 4.1
 Lekton, 2.439
- Leland, Charles Godfrey, 8.462, 463, 660
- Lemery, Nicholas, 1.360
- L'Enclos, Ninon de, 8.264, 443, 639
- Lenclos, Ninon de, 5.29
- Lenzen, Victor F., 4.xixn, xxn, 574, 5.xxxii,
 xxxviii, 6.xxvn.2, xlviin.32, lxvi, lxviii.43,
 lxvii, lxviii.45, lxviii.46, lxviii, lxviii.48,
 lxviii.49, lxviii.50, lxixn.51, 421, 459, 462,
 466, 479, 8.xlin.24, lxiii, lxiii.71, lxiii.72
- Leonard, Henry S., 4.xxii, 6.xxxixn.15, liii, liv
- Leonardo da Vinci, 5.28, 33, 35, 8.263, 279, 639
- Leonardo of Pisa. *See* Fibonacci, Leonardo
- Leonidas, 5.28, 33, 36, 77, 79, 81, 83, 85, 87, 89,
 91, 93, 95, 104–6, 8.263, 442
 his life, 5.41
- Léon XIII, 3.348
- Leo X, 5.28
- Lesage, Georges-Louis, 2.218*n*
- Lesseps, Ferdinand de, 5.28
- Lessing, Gotthold Ephraim, 5.28, 33, 35, 74–75,
 77, 79, 81, 83, 85, 87, 89, 91, 93, 95–103, 104–
 6, 8.1, 263, 279, 362–63, 639
- “Lesson in Necessary Reasoning” (sel. 42),
 8.630–34
- Letter
 in an ABC-separation, 8.222, 224, 226, 424
 affixed to monads, 6.268–69
 in algebra of the copula, 8.210, 212, 421
 in Boolean algebra, 6.1, 50, 268, 8.63, 64,
 69, 71
 indexical sign in geometry, 6.212
 on Jevons’s machine, 6.65–66
 on Marquand’s machine, 6.67, 67–68*n*2, 71
 in ordinal geometry, 6.263, 264, 265, 473
 signifying statements or propositions, 8.64,
 71, 252
- telltale row of, 8.224, 226, 227
 x, y, z, 8.64, 71
See also Notation; Sign(s)
- Leucippus, 6.445
- Le Verrier, Urbain, 5.28
- Leverrier, Urbain Jean Joseph, 8.204, 418
- Levy, Steven H., 8.396
- Lewes, George Henry, 2.315, 5.405
- Lewis, Clarence Irving (C. I.), 4.xlvii, 5.xxxiii
- Lewis, George Cornwall, 2.443
- Lexicography, 8.453
 Peirce’s work in, 5.xliii–xliv, 8.xxvii, xlii–
 xliii, 653
See also *Century Dictionary*
- L’Hôpital, Guillaume de, 8.370
- Liagre, Jean Baptiste Joseph
Calcul des Probabilités, 4.lv
- Liard, Louis, 8.379
- Liar paradox, 8.382
- Libertarianism, 8.112, 388
- Liberty, 1.347
- Liberty, absolute, 2.111
- Liddell and Scott, 8.392
- Liebig, Justus von, 1.xvii, 96, 2.485, 5.28
- Life, 6.212, 8.155
 character of universe, 8.122
 extraterrestrial, 5.227
 flow of, 6.458
 intellectual, 5.227
 object of, 6.23
 and primal matter, 5.296–98
 or pure spontaneity, 8.122
 rational and sensuous, 2.124–25
See also Afterlife; Future life
- Ligation, 3.186–88
- Light
 apparent, 3.476–77
 brightness of, 3.382, 384, 4.161
 brilliancy of, 3.213
 color of, 3.384
 explanation of, 8.100
 ghosts in the spectrum, 4.xxix, 60
 intensity of, 3.387
 intrinsic, 3.476, 480–81, 482–84
 measurement of the deviation of, 4.269–
 70, 273–83
 mixture of lights, 3.383–84, 4.48–49
 motion of, 8.100
 noumenal, 3.383

Light (*continued*)

phenomenal, 3.383–84
 sensation of, 3.211–13, 215–16, 382–83
 spectrum of, 3.384–85, 386–87
 undulatory theory of, 3.165
 velocity of, 3.273, 372
 wavelength of, 3.382, 385, 386–87
 wave-length of as unit of length, 4.xxvii
 wave-length of used to measure meter,
 4.xxiii, xxiv, xxix, 4–6, 10–11, 240, 269–
 70, 273–98, 357, 578
See also Il lume naturale under Galilei,
 Galileo
 “Light of Logic,” 6.lxx
 “The Light of Logic,” 8.xxxn.10, xliii, 553

Likely

as term in probability, 1.398–401

Likeness, 1.xxxiii, 79, 5.111, 6.213

and argument, 2.58
 between ideas, 2.478–79
 chaotic origin of, 8.387
 constitutive of natural class, 2.467
 and degenerate secondness, 5.300, 308
 as division of representation, 1.475–76,
 486
 ground or respect of, 1.474
 and index, 1.476
 main mode of artistic representation, 6.213
 vs. numerical difference, 2.473
 object of, 1.480
 perception of, 2.472
 as predicate, 1.485
 and reference to interpretant, 1.525, 528
 as representation, 2.56
 of two sensations, 8.353
See also Icon; Resemblance; Similarity

Likeness-terms, 1.484–85

Limitation, 1.4

Limits

in continuum, 8.145
 doctrine of, 8.139, 145, 396
 of a series, 8.145

Lincoln, Abraham, 5.28, 33, 36, 8.263, 279, 639

Lincoln, Robert Todd, 6.xxxi

Lindenköhl, H., 4.589

Line

continuous, 8.394, 395
 cutting plane into regions, 6.264
 in geometry, 6.357–59, 372–73

at infinity, 8.107
 length of, 8.117
 not a continuum of points, 8.394
 number of points on, 8.lxxv, 132–33
 quantity with coincident points at infinity,
 8.107
 relationally compared with points, 8.61
 its segmentation in ordinal geometry,
 6.263–64
 of sight, 8.94, 229–30, 273
 straight, 8.25, 26, 27, 29, 57–62, 59n.1,
 88n.1, 91, 92, 94, 95, 99–100, 108, 273
 its theory like that of points, 8.xliv, 62
 vanishing, 8.27, 92, 273
See also Ray

Linear

character of dual relation, 6.366

Linear Associative Algebra. *See* Peirce, Benjamin
(1809–1880) (father)

Linguification, 1.149

Linnaeus, Carolus, 5.28, 33, 38, 8.263, 277, 278,
279, 639

Lippi, Fra Filippo, 5.28

Lipsius, Justus, 8.277

Liquid, 8.159, 161–62, 167, 170, 176

heating of, 8.172
 state of protoplasm, 8.158, 173, 174, 175,
 176
 virial in, 8.163, 170
See also Solid

Lissajous, Jules Antoine, 3.273, 372

Liszt, Franz, 5.28, 8.306, 458

Literature

history of, 8.294
 vs. logic, 8.70

Livingstone, David, 5.28, 38

Llull, Ramon. *See* Lull, Ramon

“Lobachevski’s Geometry,” 8.644

Lobachevsky, Nikolai Ivanovich, 2.416, 417n,
492, 4.546, 5.28, 439, 8.lxvii, lxxviii.77, 93,
366, 382, 445–46, 498
significance of his research, 8.271–74

Locality, absolute, 2.111–12

Locke, Gordon, 8.396

Locke, John, 1.xxxiii, 73, 93, 2.99, 115, 143, 247,
336, 484, 5.29, 33, 37, 68–70, 432–33, 454,
6.500, 8.xl, lxv, 34, 263, 279, 392, 639
Berkeley’s criticism of, 2.478
his biography, 8.38–41, 371–72

- Locke, John (*continued*)
 on conceptions of the mind, 1.172
 on contemplation, 2.234*n*
 definition of logic, 1.166, 169
 on envy, 5.407
 on essence, 5.417–18
 on general conceptions, 2.477
 his grand lesson, 8.xl
 his grand word, 8.41
 on ideas, 2.233
 importance of, 1.103–4
 his influence on Berkeley, 2.476–77, 481
 nominalism of, 2.476
 Peirce's disagreement with, 1.172
 on principle of causality, 1.240
 on probability, 1.400, 3.279–80, 4.411–12
 on reflection, 2.483
 sensationalism of, 2.476
 on syllogism, 5.344
 on words as signs, 1.170, 172
An Essay Concerning Human Understanding, 1.166, 2.99, 234*n*, 3.279–80, 4.411, 587
Essay on Government, 1.444
Thoughts on the Conduct of the Understanding, 3.3
- Lockwood, Henry, 6.485
- Lockyer, Joseph Norman, 8.248, 439
- Lodge, Anna Cabot Mills, 8.658
- Lodge, Henry Cabot, 5.xlviii, 6.xxviii, 8.lxii, lxiii*n*.68
- Logarithm
 addition-, 6.317
 Briggsian, 6.289
 invention of, 8.289, 378
 logarithmic scale, 8.xlii, xlvi, 48–54, 50
illus., 378, 547–48
 logarithmic table, 8.xlii
 system of, 8.48, 51
See also Number
- Logarithmic seconds
 advantage of, 6.lxvii, 479, 8.xxviii–xxix, lxii
- Logic, 1.xxiii, xxx, 38, 274, 358–75, 2.56, 57, 116, 250, 359
 aggregant, 4.188–89
 aggregate, 4.264–66, 454, 478
 algebraical, 5.446
 algebra of, 4.xxxvi, xliv, xlv, 21, 23, 163, 173–74, 243, 264–66, 381, 401, 407, 493, 590, 8.xxx, 63, 66, 69
 as analysis of meaning, 2.103
 as analysis of operations of reason, 4.170*n*
 applied, 2.441–42
 of arithmetic, 4.210
 vs. arithmetic, 5.168–69, 439
 art of, 1.199
 as art of thinking, 4.378, 400–401, 509–10, 586
 associative principle in, 4.183, 187
 its assumption of general understandability, 8.123
 assumptions of, 3.246, 343
 and breadth, 4.382
 British, 2.310–11
 broad and narrow senses of the term, 1.xxxiii
 calculus of, 1.191
 calculus of probability as, 6.254
 and categories, 5.235–37, 239–40
 classical vs. positive, 5.xxxiii
 as classification of arguments, 3.323
 in classification of sciences, 8.275, 366, 447
 a classificatory science, 1.xxii, 329, 359, 409
 on clearness and distinctness, 3.258, 260, 356, 358
 commutative principle in, 4.183
 and comprehension, 4.7–8, 23, 345–46, 451, 483
 conception of, 1.163
 correspondence course in, 5.xlviii, xlviii*n*
 criticism of Hegel's view of, 8.200–201
 as critic of arguments, 1.xxxii
 and Darwinian controversy, 3.244, 341
 deductive, 3.3–4, 4.lx, 407–8, 454, 568, 6.418
 definitions and theories of, 1.175, 205, 303–14, 322, 325, 329, 361–62
 and depth, 4.169*n*, 382
 and diagram construction, 5.xliii, 331–32
 as dialectic, 2.350, 351–52, 353
 dichotomies in, 5.240–41, 449
 different systems of, 2.352
 distributive principle in, 4.184, 186, 187, 573
 doctrine of individuals and simples, 4.193
 as doctrine of truth, 3.14, 4.xxxvi, 400
 elementary, 5.395–96
 Epicurean logic, 4.xlvi

Logic (*continued*)

- its etymology, 8.24
- of events, 8.415
- and evolution, 4.lxix, 547–48
- exercises in, 6.19–20, 51–53
- and extension, 4.7–8, 21–23, 345–46, 451, 483
- factors in, 4.188–89
- factual nature of, 4.1–2
- on fallacies, 4.487
- falsity of its dual divisions, 6.166
- first-order vs. second-order, 5.xxxiii
- formal, 2.xxxviii, 359, 389, 429, 3.88, 97, 4.xxxvi, xlv, 23, 26, 168, 222, 238–39, 401, 402, 409, 421, 493, 508, 509, 5.114–15, 223–24, 225, 239, 446, 6.xxix, 16, 8.24, 30, 235
- fundamental axiom of, 4.lxix, lxx, 545–46
- fundamental conceptions of, 8.17, 21, 85–87, 109
- and general description, 4.249–50, 251, 253–54
- general procedure in, 5.191–97, 214–15
- general terms of, 1.170
- genus summum*, 1.325
- German, 3.6–7
- on good and bad investigation, 3.17–18, 19
- and grammar, 4.247, 248
- Greek and Roman view of, 8.xxxvi, 24
- Hegel's definition of, 1.169
- history of, 1.360–61, 2.xxiv–xxv, 71, 310, 466, 3.3–6, 5.324–26
- implicational, 5.xxxiii
- importance of exercises in, 6.11, 24–26
- improved by logical machine, 6.72
- including algebra, 3.83–84
- on individuals, 3.93
- inductive, 4.lx, 238, 408, 5.226
- and inference, 3.48, 56, 279
- as investigation of consequences, 2.349
- as investigation of truth, 2.348, 350
- involution, 4.204
- laws of, 1.166
- in liberal education, 6.10, 30, 418
- vs. literature, 8.70
- Locke's definition of, 1.166, 169
- logical analysis, 3.197
- logical atom, 2.389–91
- logical formula for attention, 3.337–38
- logical formula for habit formation, 3.337
- logical function, 3.115, 115*n*, 4.215–16
- logicality of man, 3.284–85
- logical method, 3.197, 257
- logical mind, 3.69, 70, 71, 73, 102, 103, 106, 107, 280
- logical pragmatism, 3.xxxiv
- logical synonymy, 3.65
- logical term, 3.64, 200–201
- logical truth, 3.100
- machines, 4.lxvii
- main problem of, 5.166
- many valued, 5.439
- of mathematics, 1.xxxiv
- and mathematics, 3.83–84, 92, 4.210, 222, 238–39, 242, 299–309, 381, 382, 484, 485–86
- vs. mathematics, 5.xxvii, 114, 166, 6.257–58
- mathematics as, 6.254
- maxims of, 1.440
- medieval, 3.4, 89, 290, 5.344–45, 6.177
- medieval vs. modern, 5.346
- and metaphysics, 3.6, 4.252, 5.223–24
- and method, 4.xxv, xxxvi, lv, 239, 380–82, 509–10
- as method of reason, 5.324
- method of research devised by, 4.378
- metric conception of, 5.439
- Mill's definition of, 1.166
- modal, 6.425
- modern, 8.xxxvi, 85
- of modern science, 6.254
- multidimensional, 5.110, 115
- need for new system of, 1.458
- non-patentable rules of, 8.52
- non-relative, 4.188, 196, 454, 455, 5.108, 114–15, 166–77, 173*n*, 186, 372–78
- normativity of, 6.lxxxiii
- not quantified, 8.31
- of number, 6.xliii–xliv, 156–63, 437–38
- objective, 8.xcv, 124
- old-fashioned, 6.272
- and operations of understanding, 4.1
- ordinary, 5.241, 6.272, 8.73
- Peirce's introduction to, 1.xviii
- Peirce's law (fifth icon), 5.xxvii, xxxii*n*, 173–74, 440
- vs. philosophy, 8.xxxvi, 23

Logic (*continued*)

- and physiology, 4.xlv, 476
 - in plan for dictionary, 8.293
 - of Port-Royal, 5.360, 462
 - practical, 3.28, 255, 330, 353, 4.400, 476, 508, 509, 6.30
 - and predestinate conclusion of inference, 4.164–65
 - principles of, 2.67, 243, 4.1–2, 7, 166–68
 - and principles of reasoning, 3.58
 - and probability, 3.127, 278–79
 - its proper object, 5.458
 - of propositions, 5.443
 - psychological definitions of, 1.163–64, 166
 - and psychology, 4.1, 252, 421, 5.xxxvii, 245–46, 458
 - vs. psychology, 6.355
 - qualitative, 5.323, 372
 - quantitative approach to, 3.278
 - on question vs. proposition, 3.20
 - reform of, 1.162
 - of relations, 3.114, 201, 5.372, 6.xxix, 72
 - of relatives, 3.115, 4.xlvii, lii, lviii, lx, 193, 195–96, 210–11, 299, 306, 381, 394–99, 453, 458, 467, 469, 478–85, 502, 5.109–10, 8.24, 31, 139, 202, 417; vs. logic of non-relative terms, 8.201
 - of relatives (first-intentional), 5.177–85
 - of relatives (second-intentional), 5.185–90, 197–203, 213
 - relative vs. nonrelative, 5.115
 - of religion, 4.lxvi–lxvii
 - vs. rhetoric, 3.101
 - rule of, 8.415
 - sacred duty to teach it, 8.lxxx
 - of science, 1.xxiv, xxx, xxxiv, 205, 268, 8.167*n*.2, 465
 - as science, 4.lxix, 378, 400–401, 509, 586
 - science of, 1.359
 - as science of arguments, 2.294, 296, 351
 - as science of forms of language, 2.165
 - as science of identity, 3.92
 - as science of reality, 2.165
 - scientific, 3.275–76, 289, 8.22, 105, 346, 350
 - of scientific inference, 1.423
 - of scientific investigation, 4.446
 - second intentional, 8.xcv
 - of second intentionality, 5.444
 - sentiments presupposed in, 3.285
 - its significance in research on telepathy, 6.80, 102
 - significance of, 1.351
 - and social principle, 2.xxviii, xxxiv, 270–72
 - social principle of, 3.284
 - sound, 8.15, 156
 - sound theory of, 8.17
 - spatial, 6.xlv
 - as study of indefinite collection, 5.109, 112
 - as study of laws of signs, 3.98
 - as study of signs, 5.295
 - symbolic, 6.lxix, 272, 274
 - symbolical, 4.xli, lii
 - and symbols, 1.166, 174, 329
 - as a system, 4.xxv
 - system of, 1.353
 - teaching of, 3.3–4, 4.xxv, xlii–xliii, lv, 6.xxix, 271–72, 422
 - textbook, 8.xxxi, xlvii
 - textbook in, 6.xxvii, lxix–lxx, 271, 272, 420–21
 - and theology, 1.406
 - of theory formation, 8.23
 - as theory of inference, 2.350, 430
 - of theory of numbers, 8.55–56, 201
 - theory of suppositions, 4.507, 591, 592
 - traditional, 6.11, 16, 30
 - triad in, 6.175–76, 182
 - trichotomies in, 5.242–45, 295, 449
 - truth-function analysis, 5.440
 - tychist, 5.xxxix
 - and types of representation, 2.56–57
 - universe of discourse, 4.170, 250, 345–47, 402, 450–53, 477, 479, 483, 569, 584
 - universe of marks, 4.418*n*, 451, 483, 502
 - unphilosophical, 8.xxxvi, 23, 366
 - unpsychological definitions of, 1.163, 166–67
 - unscientific, 6.387
 - usefulness of, 5.xliii, 328
 - and verification, 4.438, 441
- See also* Addition; Algebra; Argument; Boolean algebra; Calculus; Copula; Correspondence course; Deduction; Exercise, logical; Existence; Fallacy; Grammar, Logic, Rhetoric; Induction; Inference; Language; Multiplication; Negation; Notation; Philosophy;

- Logic (*continued*)
 See also Proposition; Quantification;
 Relation; Set; Syllogism; Term(s);
 Universe of discourse; Validity
- Logicity
 and community, 2.271–72
 private, 2.271–72
- Logical machine
 Carus about, 8.201, 417
 how to improve, 6.xxxv, 71–72
 of Jevons, 6.xxxv, 65–66, 68, 428, 8.xxxviii,
 xxxviii.n.21, 31
 of Marquand, 6.xxxv, xxxvn.9, 16, 65, 66–
 69, 71, 8.xxxviii, xxxviii.n.21, 31
 Peirce about, 8.201–2
 as reasoning machine, 6.16, 69–71, 429
 See also Reasoning machine
- “Logical Machines” (P 344), 6.xxxv, 16, 65–72
- “Logical Studies of the Theory of Numbers” (sel.
 15), 8.xliii
- “Logic and Spiritualism,” 6.lxxviii–lxxx, lxxxiv,
 8.xxxv, lxxxix.n.110
- Logicians, 1.361
- Logicism, 5.439
- Logic Notebook, 1.xxvi
- “The Logic of Mathematics in Relation to
 Education,” 8.lxviii.n.78
- “On the Logic of Number” (item 38), 4.xliv, 1
- “On the Logic of Number” (P 187), 5.207, 8.130,
 390, 393, 394
- Logic of relations:
 “Logic of Relatives”. See “Description of a
 Notation” (P 52)
- “Logic of Relatives” (MS 364), 4.xlviii, xlix
- “The Logic of Relatives
 qualitative and quantitative,” 5.xliii
- “Logic of Religion,” 5.447
- Logos, 2.138, 8.xxxvi, 24
 condition of a symbol, 1.258
 defined, 1.274–75
 and general grammar, 1.304
 or idea, 1.169, 174
- Lombroso, Cesare, 8.lxv, 259 *caption*, 277–82
passim, 448, 449, 638, 640, 647, 648, 671
 his observations of criminals, 8.lxvi, 343,
 464
The Man of Genius, 5.xxiv
- London Mathematical Society, 2.xxxiv
- Longfellow, Henry Wadsworth, 1.xvii, 8.44, 374
- Long run, 6.lxxxii, 8.114, 115
 and probability, 6.119
- Longstreet, James, General, 8.280
- Lorenzoni, Giuseppe, 5.452
- Loring, J. B., 6.54, 55, 56, 425
- “Lost Report”. See “Report on Gravity”
- Lotze, Rudolf Hermann, 2.77, 276, 5.28, 6.448
- Louis XIV, 5.28, 34, 36, 8.263, 279, 639
- Love
 agapè, 8.184, 410
 cherishing-, 8.xci, 184, 185, 410
 Christian, 8.xci–xcii
 its Christian doctrine undermined, 8.342
 circular movement of, 8.185
 creative, 8.xci, 194
 Empedoclean *philia*, 8.xci, 410
 Eros vs. Anteros, 8.411
 as essence of God, 2.434
 evolutionary agency of the universe, 8.xci–
 xcii, 184
 freedom its spirit, 8.195
 God’s, 8.xci, 347–48
 vs. hatred, 8.xcii, 184–85
 key to treating criminals, 8.344
 and Lamarckian evolution, 8.xciv, 193
 law of, 8.xci, xcii, xciv, xcvi, 194
 of life, 2.124–25
 of mankind, 8.186, 187
 Newcomb’s distinctions of, 8.186–87
 of order, men, and the world, 1.4
 philosophy of, 8.184–86
 vs. punishment, 8.341
 as real impulse, 5.231
 self-love, 8.xci, 185, 186
 its specific impulse, 8.185
 universal, 8.199
 universe as, 5.286
- Loveliness, 8.xcii, 184, 186
- Lowell, Anna Cabot Jackson, 1.xxvii
- Lowell, Augustus, 5.xxiv, 8.lx, lxi, lxviii.n.80,
 lxxxviii, 259 *caption*, 637, 645, 651
- Lowell, Charles, Rev., 8.376
- Lowell, Charles Russell, 1.xxvii
- Lowell, Harriet Brackett, 8.46, 376
- Lowell, James Russell, 1.xvii, xxvii, 8.376, 413
- Lowell, Percival, 6.lvii
- Lowell Institute, 1.xxii, 3.xxi, 336n, 5.xlin, 8.lx
 Lectures of, 1.xxx
 Lectures of 1892, 5.xxiv

Lowell lectures on the history of science, **8.lx–lxi**,
 lxi.65, lxxv, lxxviii–lxxix, lxxviii.80, lxxxi, lxxxvii,
 lxxxviii, xci, 637, 645, 651, 652
 Löwenheim, Leopold, **5.xxxiii**, 464
 Löwenheim-Skolem theorem, **5.464**
 Loyola, Ignatius of, **8.263**
 Lucian, **5.28**
 Lucretius, **5.29**, 37, **8.89**, 382, 387
 on swerving of atoms, **6.204**, 454–55
 Lucullus, **6.177**
 Lukasiewicz, Jan, **5.xxxiii**, xxxiii.439, 440,
8.422
 Luke, St., **8.195**, 383, 414
 Lull, Ramon (Raymundus Lullus, Raymond
 Lully), **5.29**, **8.268**, 278
 Ars magna et ultima, **4.487**
 Lüroth, Jacob, **4.xlvii**
 Luther, Martin, **5.28**, 33, 38, **6.456**, **8.263**, 268,
 639
 Lütke, Friedrich Benjamin von, **4.355**, 530, 585
 Observations du pendule, **4.594**
 Lyell, Charles, **1.162**, **5.29**, **8.465**
 Lyman, Theodore, **5.437**
 his questions on Office of Weights and
 Measures, **5.149–50**, 153, 159–60

M

MacColl, Hugh, **6.5**, 417, **8.379**
 MacFarlane, Alexander, **4.407**, 587, **8.379**
 Mach, Ernst, **6.470**, **8.42**, 353, 373, 468
 translation of his *Geschichte der Mechanik*,
8.lxxix, lxxix.99
 Machiavelli, Niccolò, **5.29**, 33, 73–74, 77, 79, 81,
 83, 85, 87, 89, 90, 91, 93, 95–103, 104–6, 431,
8.263, 279, 639
 his life and work, **5.47–48**
 Machine
 as feeling, **8.22**
 its two impotencies, **6.70**
 universe as, **8.347**
 See also Logical machine; Reasoning
 machine
 MacKaye, James Morrison Steele, **5.xlviii**,
6.xxxviii, xlv, xlix, 458, **8.356**, 469
 on dramatic expression, **6.213**
 his three principles of being, **6.215**
 MacKaye, Mary, **6.xxxviii**, xlv
 Maclaurin, Colin

 theorem of, **2.406**
 Mädler, Johann Heinrich von, **3.483–84**
 Magnitude
 distinctions of, **8.143**, 394
 reduction of scales of, **3.182–83**, 185
 of stars, **3.180–83**, 185, 398, 407, 418, 475–
 76, 477, 479, **8.229**, 230, 425–26, 622,
 623
 third grade of, **8.143**, 394
 two grades of, **8.140**, 143
 See also Collection
 Mahan, Asa, **2.76**
 Mahomet, **5.29**, 33, 38, **8.263**, 268, 279, 639
 Maine de Biran, **2.139**
 Malaspina, Alejandro, **4.355**
 Malebranche, Nicolas, **2.476–77**
 importance of, **1.103**
 Mallet, John William, **1.96**
 Malthus, Thomas Robert, **4.liv**, 380, **8.191**
 and Darwin, **3.xxxvi**
 An Essay on the Principle of Population,
3.xxxvi
 Mammon, **8.187**
 Man
 as community of cells, **6.167**
 community of cells, **8.401**
 compared to woman, **1.14**
 consists of person and condition, **1.11**
 dialectical weakness of, **6.180**
 external sign, **8.xcvii**
 his feelings, intentions, and thoughts,
1.498–99
 his glassy essence, **8.165**, 400–401
 natural, **6.173**
 See also Great men; Person
 Manco Capac, **8.268**
 Mandeville, Bernard de, **6.397**, 500
 Fable of the Bees, **8.189**, 412
 Manifestations, **1.7**, 49
 Manifold
 presentation of a, **1.352**, 474
 its reduction to unity, **1.352**, 471, 474, 520,
2.45, 49–52, 54, 91, 199, 217, 218
 of sense and first impressions, **1.352**, **5.299**,
 304
 of substance, **1.486**, 520, 524
 unity of, **1.6**, 390
 See also Many; Unity

- Manifoldness, **1.516**
 of a continuum, **6.363**
 and firstness, **6.444**
 unbounded, **6.214**
- Manning, Thomas G., **5.xxviii***n*, **xxix***n*, **6.xxviii***n*.3, **xxxviii***n*.10, **8.lxiii**
- “*The Man of Genius*” (sel. 47), **8.lxv**, **lxvi–lxvii**, **638**, **646–48**
- Mansel, Henry Longueville, **2.109**, **110**, **133**, **263***n*, **278**, **8.191**, **381**, **413**
 on causality, **1.77**
 on need of faith, **1.77**
 his opposition to Whewell, **1.208**
 his response to Zeno’s first two arguments, **1.392**
 on scientific induction, **1.175**
Limits of Religious Thought, **1.208**, **2.109**
 Philosophy of the Conditioned, **2.109**, **110**
 Prolegomena Logica, **2.348**
- Mansfield, Earl of, **5.29**
- “Man’s Glassy Essence,” **6.lxxx**
- “Man’s Glassy Essence” (sel. 29), **8.xlix**, **lxx**, **lxxiii**, **lxxiv**, **lxxx**, **lxxxv**, **lxxxviii–xci**, **lxxxviii***n*.109, **lxxxix***n*.110, **xcin**.113, **xciv**, **xcvi**, **xcvii**, **160** *caption*, **166** *illus.*, **193**, **526**, **594–96**, **599–604**, **650**
 meaning of title, **8.400–401**
- Man-sign, **2.240–41**
See also Sign(s)
- Many
 vs. one, **1.390**, **8.109**
- Marchand, Richard, **1.96**
- Marcus Aurelius, **5.26**, **28**, **32**, **37**, **8.258**
- Margarita Philosophica, **8.1**, **1n.1**, **363**
- Marie, Maximilien, **8.384**
- Marius, Gaius, **5.29**
- Mark
 of a concept, **2.77**
 diacritical, **5.341**
 as logical sign, **5.110**
 as predicate, **5.112**, **337–38**
 of a term, **2.74–75**
 of truth-value, **5.112**
See also Sign(s)
- Mark, St., **8.198**, **199**, **415**
- Market
 and price, **3.174**, **175**
See also Political economy
- Marketing
 conceived for the correspondence course, **6.21–26**, **420**
- Markoe, Thomas M., **8.xxvi**
- Marks
 defined, **1.308**
 of determination, **1.327–28**
 different orders of, **1.324–25**, **332–33**
 internal, **1.335–36**
 of representation, **1.308**, **327**, **334**
- Marlborough, Duke of, **5.29**, **33**, **8.263**, **268**, **639**
- Marlowe, Christopher, **6.179**
- Marquand, Allan, **4.xix***n*, **xxxviii**, **xlii**, **xliii**, **xliv–xlv**, **l**, **li**, **lxviii**, **408**, **569**, **579**, **6.xxxv** *n*9, **418–19**, **428**, **8.xxxviii**, **xxxviii***n*.21, **31**, **367**
 his calculating machine, **5.xliv**, **421–22**, **482–83**
 his logical machine, **6.xxxv**, **16**, **65**, **66–69**, **71**
 “A Machine for Producing Syllogistic Variations,” **5.482**
 “A Machine for... Variations,” **4.587**
 “A New Logical Machine,” **5.483**
 “The Logic of the Epicureans,” **4.xlvi**, **587**
- Mars
 Kepler’s work on motions of, **8.lxxi**, **248–49**, **286–87**, **289–90**, **346**, **452**, **651–52**
- Marsh, George P., **1.117–18**, **123**, **126**, **127***n*, **136**
- Marsh, Othniel Charles, **6.lxxvi**
- Martianus Capella, **2.108**
- Martin, Newell, **4.xxxix**, **lxvii**
- Martin, Richard, **5.xxxiii***n*
- Martineau, James, **2.448**, **8.413**
- Mary Stuart, **5.29**
- Mascart, Eleuthère Elie Nicolas, **4.5**, **357**
- Masham, Abigail, **8.371**, **372**
- Mason Street, **8.44**
- Mass, **1.9**
 and acceleration, **3.204–5**
 and exhibition, **1.54**
 and inertia, **1.54**
 properties expressible in terms of, **3.165–66**
- Massasoit, **5.29**, **430**
- Masséna, André, **5.29**
- Mästlin, Michael, **8.288**, **452**
- Materiafication, **1.149**
- Material
 immaterial in the, **1.55–56**

- Materialism, **1.83**, **2.486**, **8.xxx**, xlii, 14, 15, 18, 22, 105, 364
 its baselessness, **8.lxxx**
 of country, **8.lx**
 English, **8.236**
 its extent in threefold analysis of
 physiology, **6.l**, 188
 vs. idealism, **8.43**
 method of refuting it, **6.428**
 and necessitarianism, **8.123**
 Peirce's, **6.lv**
 physiological, **3.2**
 required by faith, **6.li**, 167
 scepticism and faith, **1.111–14**
 stoic, **8.112**
 and theory of probability, **3.291–92**
 William James's, **8.232**
See also Conceptualism; Realism
- Mathematical demonstration
 corollarial and theorematic, **1.xxxiv**
- Mathematics, **1.xvii**, xxiii, 2, 258, 306, 487, 528, **8.17**, 34, 201, 465
 absolute in, **5.251**
 its advantage in psychology, **5.124**
 applied to political economy, **3.109–10**
 applied to psychology, **3.109**
 arithmetics, **4.210**, 222, 242, 267–68, 484, 511–14
 axioms of, **3.14**, 189–90
 Benjamin Peirce's definition, **6.257**
 branch of logic of science, **6.254**, 255
 calculus of variations, **4.380**
 Cartesian coordinates, **4.313**
 in classification of sciences, **8.275**, 366, 447
 confused by elementary geometry, **8.273**
 its contribution to methods of thinking, **5.325**
 deductive nature of, **5.164**, 281
 defined, **6.257**
 definition of, **5.325**, **8.447**
 demonstration in, **3.14**, 297
 differential calculus, **4.485–86**
 doctrine of limits, **4.194**
 its essential conceptions for philosophy, **8.xxxvii**, 88–94, 106–8
 and experience, **2.59–60**
 generalization in, **8.91**
 Hegel's deficiency in, **6.179**
 history of, **8.36**
 its ideal world, **6.255**, 258
 illogical reasoning in, **8.140**
 imitated by metaphysics, **8.21**, 88, 89, 109, 271–72, 365
 and intuition, **2.59–60**
 lesson in, **8.1–12**
 and logic, **3.83–84**, 92, **4.210**, 222, 238–39, 242, 299–309, 381, 382, 484, 485–86
 vs. logic, **5.xxvii**, 114, 166, **6.257–58**
 logic of, **2.443**
 and logic of relatives, **4.xlvii**
 mathematical function, **3.115_n**, 119, 120, **4.215–16**
 mathematical reasoning, **6.18**, 25, 37–40, 254
 mathematical sciences, **3.276–77**
 mathematicians' temperament, **4.556–57**
 modern, **2.315**, **8.106**
 and necessity, **3.83**
 not caring for reality, **6.255**, 258
 not the science of quantity, **6.257**
 number theory, **4.xliv**, 222–24, 299–309, 488, 575–76
 object of, **2.59–60**, 483
 as observational science, **5.xliii**, 164, 281
 philosophy of, **1.386**
 its placid development, **6.173**
 in plan for dictionary, **8.293**
 powers of zero, **4.258–59**
 vs. probabilities, **6.255**
 and probability, **1.395**, 403–4, **3.279**
 pure vs. applied, **8.447**
 and quantity, **4.580**
 reasoning in, **4.lv**, 490, 558
 as science of equality, **3.92**
 species of logic, **8.23**, 366
 as study of relational diagram, **5.288**
 as study of relations of collection of monads, **6.268**
 teaching of, **4.557**
 textbook, **8.xxxi**, xliii
 theory of lattices, **4.xlvii**
 truth of, **4.299**, 579
See also Addition; Algebra; Arithmetic; Axiom; Calculus; Function; Geometry; Multiplication; Number
- Mathematics Club, **1.xvii**
Mathematische Annalen, **3.238**, **8.139**
 Mathias, **8.289**, 452

- Matiyasevich, Yuri, **8.xlii***n*.30
- Matrices, **8.37**
- Matrix
 theory of, **5.434**, **435**
- Matter, **1.150–51**, **159**, **330**, **8.110**
 applied to space and time, **1.250**
 according to Aristotle, **5.360**
 atomic theory, **6.248**
 blind, **8.244**
 vs. consciousness, **8.181**
 its constitution, **8.165–73**
 constitution of, **5.xxxvii**
 continuous, **8.161**
 dead, **6.393**
 effete mind, **6.lxxxiii**, **8.xxxix**, **18**, **22**, **106**,
 135, **364**
 in egoism, **5.391**
 and element, **5.393**
 existence of, **2.478–79**, **483**, **3.30–31**, **59**, **81**
 extinct mind, **8.391**
 first, **2.476**
 and form, **2.474**
 and formation of universe, **3.307–8**
 its grained structure, **6.248**
 idea of, **1.148**
 kind of mind, **8.182**, **193**
 kinds of, **1.50–55**
 kinetical theory of, **8.169**, **432**, **433**
 as locus of force, **3.59**
 and logic, **1.338**
 and mind, **5.xlii**, **8.xxx**, **14–15**, **43**, **105**
 mind hide-bound with habits, **8.155**, **180**,
 387, **412**
 mind reduced to, **8.123**
 modification of mind, **6.499**
 molecular theory of, **6.207**, **248**
 one of three worlds, **1.83**
 particle of, **3.204–5**
 of phenomena, **1.307**
 phenomenal, **1.313**
 and power, **5.404**
 in presocratic philosophy, **6.445**
 primal, **5.xl**, **295–96**, **298**
 primordial conception in Aristotle, **6.397**
 and reality, **2.163**
 as second, **8.110**
 sensible, **8.398**
 solid vs. liquid, **8.159–63**
 specialization of mind, **8.181**, **408**
 studied in chemistry, **8.448**
 study of, **1.5**
 its subjection to law, **8.153**, **180**
 of a term, **2.74**
 as term used by Kant, **1.242**
 theories of, **8.21**
 theorizing about its nature and properties,
 6.246–51, **253**
 in Thomism, **2.277**
 unexplained in Spencer's evolutionism,
 6.lxxvii, **397**, **500**
 vortex-theory of, **6.249–51**, **470**
 See also Nerve matter; Substance
- Matter of fact
 vs. inference, **6.273**
 material sequence, **6.273**
- Matthew, St., **8.195**, **414**
- Maumené, Edme Jules, **1.96**
- Maurice, John Frederick Denison, **8.413**
- Maurokordato, Alexander, **8.329**
- Maurokordato, Panteles, **8.322**, **329**
- Maurokordato, Thodores, **8.lxxii**, **302–4**, **311**,
 313–15, **317**, **318**, **319**, **322**, **323**, **333**, **457**,
 461–62, **655**
 talk with Karolos on usage differences,
 8.327–29
- Mavrokordátos, Aléxandros, **8.457**, **463**
- Mavromichalis, Kyriakoulis, **8.459**
- Maxim
 Ockham's razor, **8.106**
- Maxims, **1.452**
 logical, **1.443**
 for testing reasoning, **1.442**
- Maxwell, James Clerk, **3.xxv**, **4.xxviii**, **48**, **5.29**,
 33, **37**, **8.168n.4**, **190**, **204**, **263**, **279**, **369**, **404**,
 405, **412**, **418**, **639**
 his experiments on color, **3.180**, **384–85**
 on kinematical viscosity, **4.104–5**
 on probability and theory of gases, **3.244**,
 340
 scale of, **3.386**
 on viscosity of the air, **4.148–49**
 Electricity and Magnetism, **4.68**
 "On the Viscosity," **4.564**
 Theory of Heat, **3.2**
- May-be
 great democracy of, **6.251**
 not an affair of dual consciousness, **6.214**
- Mayer, Alfred Marshall, **4.xxiv**, **83–84**, **6.lv**

- Mayer, Alfred Marshall (*continued*)
 “Spectrum,” 4.60, 269*n*
- Mayer, Julius Robert von, 6.xliv, 385, 494
- Mazarin, Jules, 5.29, 33, 36, 8.263
- McCull, Hugh, 4.1, lix
 on inclusion, 4.173*n*
 on non-relative terms, 4.188
 on notation for existence, 4.406–7
 “The Calculus of Equivalent Statements,”
 4.173*n*, 182*n*, 572, 587
- McCormack, Thomas J., 8.lxxix*n*.99, 596
- McCosh, James, 2.278, 280
- McCrie, George M., 8.389
- McDermott, John, 8.lviii*n*.62
- McGregor, P., 2.74, 75
- M’Clelland, William J., 8.lxx, 500, 501
- Mean
 arithmetical, 3.375–79, 380
 error, 3.111, 379–81
 as a function, 3.375–76
- Meaning, 1.7, 50, 2.6, 10, 74, 183, 225
 and cognizability, 2.208
 as conception, 2.6, 174, 238
 and existence, 3.30–31, 56
 of feeling, 3.38–39
 general, 2.305
 given in definition, 3.100–101
 and habit, 3.265, 363
 of a hypothetical proposition, 3.97
 of a name, 8.87
 not a concern of algebra, 5.363
 practical distinctions of, 3.265, 275, 364,
 374
 as practical effects, 3.xxix, 266, 365
 pragmatic principle, 8.136–37, 366
 of representation, 3.65
 as respect in which signs agree, 2.439
 sameness of, 2.80–81
 of a sign, 2.208
 of sign, 3.65
 of a thought, 2.227
 as translatability into a thought, 3.38
 and true consequences, 2.5
 and truth, 2.439
 vs. usage, 3.267, 365
See also Synonymy; Translation
- Meaninglessness
 as absence of conception, 3.80
 and conditional existence, 3.30
 expressing no facts, 3.296
 and falsity, 3.101
 and predication, 3.37
 of a statement, 3.86
See also Falsity; Nonsense
- Measurable
 whole of reality in Epicurean outlook,
 6.174
- Measure
 avoirdupois pound, 5.154–56
 British pound, 5.153–55
 of color, 5.248
 conception of, 1.528
 English reform of, 5.153, 154, 155
 English vs. American, 5.155, 155*n*
 foot length, 5.139–40
 metre vs. yard, 5.157–58
 need for international standard, 5.157, 158
 vs. quanta, 6.257
 standards of, 5.xxii, xxviii, 149–52, 438
 and thirdness, 5.306
 troy pound, 5.154–56
 U. S. pound, 5.152–56
See also Metrology; United States Office of
 Weights and Measures; Weights and
 measures
- Measurement
 along a logarithmic scale, 8.48–54, 378
 and condition of continuity, 8.134
 error of, 3.390
 expression of *g* in dynes, 8.lxii
 inaccuracy of, 8.liv, 116–17
 of intensity of sensation, 3.382–83, 387–88
 on a line, 8.107
 linear, 5.250, 450
 method of, 5.398
 metrical vs. non-metrical considerations,
 8.144, 395
 necessity of, 1.56
 neglecting infinitesimals, 8.145
 its philosophical aspect, 8.107
 scale of, 3.377
 scales of, 5.248–51, 450
 in science, 3.276–77
See also Metrology; Weights and measures
- “Measurements of Gravity at Initial Stations in
 America and Europe” (P 161) , 4.xxviii, 562,
 5.xxxii, 1, 5, 6*n*, 15, 21, 22, 6.lx, lxviii, 221,
 222, 300, 302, 322, 344, 466, 481

- Mechanical explanation, **6.63–64**
- Mechanical law, **6.xxxiv**
vs. tendency, **6.191**
- “Mechanical Units in Use in the United States and Great Britain,” **8.lxxixn.99**
- Mechanics, **8.95, 100, 119, 383**
analytical, **6.451, 8.447**
ancient, **6.172**
and astronomy, **1.9**
calculus of extension applied to, **3.238–39**
consciousness not a property in, **8.81**
explanation in terms of, **3.320–21**
law(s) of, **8.xxxi, xc, xcii, xciii, 15, 19, 89, 100, 101, 102, 112, 120, 121, 122, 155, 171, 180, 181–82, 192, 347, 354, 387, 404, 408**
laws of, **3.204–6, 307–8**
mechanical theory of heat, **3.2, 335**
molar, **8.432**
principles of, **3.202, 203**
and Spencer’s evolutionism, **5.xli, 260**
statistical, **8.xcv, 405**
three laws of, **6.249, 250, 251, 398**
See also Acceleration; Energy; Mass; Physics
- Mechanism, **6.63–64**
of association, **8.15**
and growth, **8.125**
mechanical philosophy, **8.xxxix, lxxxv, lxxxvii, 15, 100, 105, 111, 112–13, 124, 125, 179, 180, 191, 347, 465**
mechanical vs. mental action, **6.193**
of protoplasmic feeling, **8.164, 408**
Spencer’s, **6.398–99**
unable to feel, **8.105**
- Medial
as term of proposition, **1.320**
- Mediation
absolute, **2.152**
of consciousness, **2.227**
essence of mind, **6.449**
and existence, **2.148–49**
and explicability, **2.213**
genuine, **5.456**
and knowledge, **2.xxxviii, xxxix, 138**
as logical conception, **5.246–47**
medium, **6.186, 211**
and passage from doubt to belief, **5.446**
in synthesis, **2.147**
and thirdness, **5.xxxix, 239, 240, 245, 293, 295, 299, 300, 301, 304, 305, 446, 455, 456, 6.170, 172, 178, 8.xcv, 86, 87, 109**
- Medici, Cosimo de’, **5.29**
- Medici, Lorenzo de’, **5.29, 33, 36, 45–46, 65, 8.263, 442, 640**
- Medicine, **8.448**
- Medium. *See* Mediation
- Megarics, **1.390**
- Meissonier, Jean-Louis, **5.29**
- Meissonnier, Juste Aurèle, **8.277**
- Melanchthon, Philipp, **1.164**
- Melissus of Samos, **6.445, 454**
argument of, **1.199**
- Melloni, Macedonio, **5.37**
- Melody
vs. prolonged note, **6.186**
- Memoirs of the American Academy of Arts and Sciences*, **4.312**
- Memory
and comparing observations, **3.43**
and consciousness, **3.312**
deceptions of, **3.32**
and error, **2.129**
of ideas, **3.71, 104, 105**
immediate, **8.80, 380**
as knowledge of the past, **2.129**
mediate, **8.79**
mediate cognition infinitely different from feeling, **6.184–85**
of past feeling, **8.104, 149, 397**
vague, **8.397**
vividness of, **2.233–35**
- Mencius, **5.29, 33, 37, 77, 79, 81, 83, 85, 87, 89, 90, 91, 93, 95, 104–6, 8.263**
his life and teaching, **5.42–44**
- Mendeleyev, Dmitry Ivanovich, **1.xx, 4.489, 5.393, 468, 8.lxviii, lxix, lxx, 204, 284, 285, 419, 450–51, 649, 650, 654**
- Mendelssohn, Felix, **5.29, 33, 35, 8.263, 277, 279, 640**
- Mendelssohn, Moses, **6.446**
- Mendenhall, Thomas Corwin, **4.359, 5.xxxii, 6.xxvii, xxxvi, lxiv, lxv, 479, 486, 8.xxvii–xxix, xl–xli, xlin.25, xlii, xlv–xlvi, xlvn.34, li–lii, lix–lx, lxii–lxiii, lxiv, 548**
his disagreements with Peirce, **6.lxvi–lxviii**
his half-second invariable pendulum, **6.lxvii–lxviii**

- Mendenhall, Thomas Corwin (*continued*)
 Measurements... of Gravity, 4.585
- Menou, 'Abd Allah, 8.268, 444
- Mental
 action, 2.xi, xli, 214, 249–50
 chemistry, 2.481, 485
 separation, 2.50, 51
- Mental separation
 three kinds of, 1.473
- Mercury
 density of, 6.302
- Messenger, Hiram John, 6.lxxvii, 403–4, 406,
 502–3
- Messier, Charles, 3.389
- Metaphor
 and metaphysics, 1.497
- Metaphysical Club (Cambridge), 2.xxxvi, 3.xxiii
 and law, 3.xxxii–xxxv
 and origins of pragmatism, 3.xxix–xxxii
- Metaphysical Club (Johns Hopkins University),
 3.xxxvi
- Metaphysical Society (London), 3.xxxii
- Metaphysics, 1.xxiii, xxx, 8, 9, 38, 490–91, 8.251
 Abbot's, 5.286–87
 absolute in, 5.251
 as analysis, 1.116
 analysis of conceptions, 1.63, 67–68
 ape of mathematics, 8.21, 88, 89, 109, 271–
 72, 365
 axioms of, 5.292
 based on three categories, 8.110
 a branch of psychology, 1.61
 and British philosophy, 2.464
 in classification of sciences, 8.275, 366, 447
 and common sense, 3.246, 343
 criticism of James's notion, 8.233–34
 deceptions of, 3.264–65, 362–63
 definition of, 1.59, 115–16
 depending on demonstration of first
 principles, 6.203
 derivation of the word, 1.58
 difficulty of, 1.60
 on existence of reality, 3.45, 56, 59, 275,
 374
 its fallacy rate, 5.286
 fertility of, 6.176
 foundation of, 1.302
 fundamental distinction of, 1.60, 62
 German, 5.223, 325–26, 356, 359
 history of, 3.252, 350, 8.202–3
 as imitation of geometry, 5.292
 imitation of geometry, 6.167, 203–4, 453
 as imitation of mathematics, 5.230
 as knowledge of the Divinity, 1.68
 and logic, 1.63, 3.6, 4.170*n*, 252, 5.223–24
 vs. logic, 2.431–32
 and metaphor, 1.497
 metaphysic, 8.275, 646
 metaphysical concept, 4.8–9
 metaphysical hypothesis, 3.38
 metaphysical prejudice, 3.237
 modern, 2.313–14
 necessitarian, 6.64
 occupied with objects *a priori*, 1.152
 on the perfect, 3.322
 and positivism, 2.127–28
 probability of, 2.187
 and psychology, 1.63, 68, 115–16
 realist, 5.405
 real worth of, 1.62
 reasoning in, 3.40–41
 and religion, 1.62–63
 as science, 1.115–16
 and science, 2.127, 187–88, 189–90, 314
 as science of consciousness, 1.67
 as science of unclear thinking, 4.xlii
 on sensation, 3.236
 and settlement of opinion, 3.8
 study of form, 1.5
 as threefold inquiry, 8.386
 three schools of, 1.65
 triad in, 6.xlix, 166, 181, 182
 unavailability of, 3.237
 value of, 2.45*n*
See also Philosophy
- Metcalf, Loretta Sutton, 6.lxxviii, lxxix*n*.57,
 8.xxvi, xxvin.2
- Meteorology
 in classification of sciences, 8.275, 448
- Meter
 German Normal Meter No. 49, 6.217, 218,
 239, 350–51, 462, 466
 measurement of, 6.282
 Metre A, 6.221, 300, 466
 Metre B, 6.221, 240, 300, 350, 351, 466, 477
 and metric system, 6.lxxv, 377, 492–93
 Yard and Metre Bar No. 1, 6.350, 353, 477

Method

arbitrary, 2.137
 of balancing reasons, 3.294, 296
 of classification, 3.277
 criticism of James's, 8.231–34, 428
 divine or spiritual, 2.355–56
 doctrine of, 6.10
 of empirical observation, 2.137
 erotematic, 5.415
 of first principles, 8.41
 of fixing belief, 3.15–19, 25–28, 250–57, 275, 347–55, 374
 of forming opinion, 2.355–56
 of inquiry, 3.28, 34, 35–36, 40, 41, 254, 352
 of investigation, 2.354, 357, 3.16–18, 28, 34, 35–36, 40, 41, 43, 55
 and investigation, 4.lv
 Kepler's, 8.290–91
 of least squares, 3.114, 123–27, 132, 136–37, 182, 185, 375, 380, 411
 and logic, 4.xxv, xxxvi, lv, 239, 380–82, 509–10
 logical, 3.197, 257
 its logical discovery in mathematics, 5.166
 of logic in ancient astronomy, 6.451
 mathematical, 2.136
 of natural development of opinion, 3.19
 objective, 2.137
 philosophical, 2.134, 213, 8.23, 85, 99, 243
 of physical research, 6.248
 of public opinion, 3.17
 of reasoning, 3.15–18, 4.lii
 of research, 4.378, 379, 509–10
 right and wrong, 3.17–18, 19, 36, 41, 48, 58, 72, 102, 105, 255, 353
 of science, 2.213
 scientific, 3.3, 27–28, 243–44, 253–56, 272, 275, 276, 277, 339–40, 351–54, 370–71, 374, 4.lii, lv, lxvii, 379–82, 401, 545, 5.xl, 8.xxxiv, lxxi, 234, 243, 345–46, 366
 of settling opinion, 3.9, 15–19, 24, 40, 42, 43, 45, 55, 248–49, 252–56, 272–74, 345–46, 349–54, 371–73
 statistical, 4.lv, lxii, lxx
 statistical in biology, 3.244, 340
 success of, 5.136
 theory of, 4.378, 380–82
See also A priori; Authority; Despotism; Obstinacy; Persecution; Tenacity;

Theory

“On a method of swinging Pendulums” (item 5), 4.xxviii–xxix
 “Methods of Investigating the Constant of Space” (sel. 36), 8.xlvi, lix, 621–23
 Metrology, 1.xx, 4.xxii, 5.xix, 8.413
 Bureau of Standards, 5.xxiii, xxviii
 comparison of different metres, 4.117–24, 133–36
 comparison of metre with wave-length of light, 4.xxiii, xxiv, xxix, 4–6, 10–11, 240, 269–70, 273–98, 357, 577–78
 comparison of metre with yard, 4.xxxiv, 357, 358, 377
 Peirce's criticism of Noel's work, 6.lxxv, 377–79
 Peirce's work in, 5.xxviii
 and pendulum-metre, 4.108, 120, 122, 124, 133, 135–36
 review of Ridgeway's *Origin of Metallic Currency*, 8.lxxxv, 349–51, 466–67
 study of the “Old Stone Mill,” 5.xxii, 139–42, 437
 in the United States, 5.xxii, xxiii, xxviii, 149–61
 work on standard of length calibrated against wavelength of light, 6.xliii
See also Measure; Measurement; United States Office of Weights and Measures; Weights and measures
 Mexican War, 8.46
 Meyer, Julius Lothar, 4.564, 8.lxix, 204, 285, 419, 451
 Meyer, Oskar Emil, 4.105, 564, 6.310, 482
Kinetische Theorie der Gase, 4.lv
 Mézeray, François Eudes de, 8.277, 278
 Michael, Fred, 6.lxxxi, lxxxii, lxxxiii.64
 Michales. *See* Kyrgiakoulakas, Michales
 Michelangelo, 1.xxviii, 5.29, 33, 35, 65–67, 8.263, 268, 442
 compared with Raphael, 1.13–16
 ideas of beauty, justice, and truth, 1.16
 his life, 5.45–46
 masculine mind of, 1.13–16
 Michelet, Jules, 2.132, 5.29
 Michelson, Albert A., 6.xliii, xlii.23
 Micrometer, 6.476, 477
 eye-piece, 6.297–98
 filar, 6.298, 299, 460

- Micrometer (*continued*)
 scale, **6.460**
 stage, **6.298, 299**
- Middle term, **8.237**
- Milky Way, **3.184, 478–79, 482**
- Mill, James, **2.73, 303, 336, 3.2, 5.29, 33, 37, 454, 6.397, 8.lxvi, 84, 98, 263, 268, 279, 640**
 on association, **2.305–6**
 on feeling, **2.307, 3.51**
 on inference, **1.361**
 psychological theory of, **2.304**
 on similarity, **2.305–6**
Analysis of the Phenomena of the Human Mind, **2.302, 302n, 485**
- Mill, John Stuart, **1.163–64, 201, 423, 2.xxiv, xxv, 185, 261n, 311, 336, 342, 441, 486, 3.2, 4.lv, 401, 5.29, 33, 37, 408, 454, 6.204, 271, 455, 473, 8.xxxviii, 30, 31, 94, 191, 264, 279, 367, 368, 382, 388, 413, 640**
 on abstract names, **2.115–16**
 on argument, **1.448**
 on association, **2.306**
 on axioms, **1.217–18**
 on causation, **1.219–22**
 on Comte, **1.215, 220–21**
 on condition of an hypothesis, **1.210–11**
 on connotation, **2.72–74**
 definition of a natural class, **1.416, 418**
 definition of logic, **1.166**
 on denotation, **2.72**
 his examination of Hamilton, **8.32, 118**
 on fictions, **1.312**
 as follower of Kant, **1.244**
 on formal and material laws, **1.422–23**
 four methods of, **3.332**
 four methods of scientific discovery, **1.219**
 on functions of a word, **1.459**
 on hypothesis, **2.45n, 219n, 3.4–6**
 idea of necessity, **1.220**
 on induction, **1.206, 217, 219, 221, 412–15, 3.314–16, 4.174n, 429n, 440**
 on inference, **1.215–16, 361, 408–9**
 on Kant's view of experience, **1.217**
 law of succession, **1.221**
 on logic, **1.215**
 on mind as succession of feelings, **6.397**
 on notion of cause, **1.220**
 on phenomenon, **1.222**
 on probability, **1.403, 2.98–99**
 on rule and case, **1.410–11, 413**
 on syllogisms, **1.216, 409–10, 413, 415, 2.248n, 5.344**
 his theory of induction, **8.32**
 on truth of mathematical propositions, **4.579**
 on uniformity in nature, **1.414–16, 420, 2.265–66, 4.440, 444, 546**
 on validity of induction, **2.265–66**
A System of Logic, **1.215, 219, 408, 2.45n, 116, 157, 219n, 266n, 302, 485, 4.579, 587, 589, 594**
- Miller, Charles Ransom, **6.lxxiv, lxxvi, lxxvii, lxxviii, 8.xxvi**
- Miller, Charles William Emil, **4.lxi**
- Miller, Dickinson S., **8.lxxxix, lxxxix.102**
- Miller, Hugh, **5.29**
- Miller, William Allen, **2.285**
- Millet, Jean-François, **5.29, 33, 35, 8.264, 640**
- Millimeters
 in an inch, **6.353, 487**
- Millism, **8.42**
- Mills, Charles Henry, **1.2**
- Mills, Elijah Hunt, **1.xv**
- Mills, Harriet Blake (Aunt Harty), **8.44, 374**
- Mills, Sarah Hunt, **1.xv**
- Miltiades, **5.29**
- Milton, John, **1.21, 118, 5.29, 33, 35, 418, 8.264, 279, 367, 448, 640**
- Mind, **2.49, 192, 304, 439, 471, 3.xxxvi, 191, 4.381, 553**
 accuracy and delicacy of its obscure part, **6.lxxix, 386–87**
 adapted to comprehension of the world, **3.318–19**
 addressed by tile sign, **6.212, 457**
 its affinity with nature, **6.37, 386, 8.xxxvii, 94–95, 100, 383**
 agapastic development of, **8.185–86**
 in Anaxagoras, **6.445**
 belief and doubt as states of mind, **3.20, 21, 246, 343**
 beyond ego, **8.398**
 chance and development of self-consciousness, **4.552**
 and cognition, **2.181–82**
 commissured vs. isolated, **8.193**
 communication between —s, **8.398**
 connected with all matter, **8.408**

Mind (*continued*)

continuity of, **8.xciv**, 193, 195, 205
 continuous connection between —s, **8.156**
 conventional law of, **6.70**
 coordination of —s, **8.148**
 of corporations, **8.182**
 crystallized, **8.110**
 its dependence on the body, **6.62**, 390–91, 392
 divine, **5.287**
 effete, **6.lxxxiii**, **8.xxxix**, 18, 22, 106, 135, 364
 in egoism, **5.391**
 and emotion, **3.29–30**
 enslaved vs. vigorous, **8.118–19**
 esprit de corps, **8.182**, 398
 its essence, **6.449**
 its essential property, **6.450**
 everything of its nature, **6.439**
 evolutionary history of, **8.127**
 existence in, **2.472–73**
 existence of, **2.483**, **3.31**, 52–53
 existence of mental phenomena, **3.271**, 370
 existence relative to, **3.29–30**, 52–54, 73
 extinct, **8.391**
 faculties of, **3.31**, 35, **4.555**, 594, **5.237**, 245–46, 298
 feeling part of, **3.29**
 feminine and masculine, **1.13–14**
 as first, **8.110**
 fountain of existence, **8.124**
 as function of brain, **3.45**
 its functions exercised by protoplasm, **8.175**
 its genius, **6.187**
 habit of, **3.66**, 75, 245, 342
 hide-bound with habits, **8.155**, 180, 387, 412
 ideas in, **3.63**, 68–74
 individual, **2.471**, **3.50**
 and inference, **2.242**, **4.434**
 influence of mind upon, **6.110**, 440, 493
 its intimate action upon the body, **6.1**, 188
 knowledge of, **2.171–72**, 206, **3.51–54**
 Lamarckian development of, **8.xciv**
 and laws of cerebration, **4.553**
 learning to form a general idea, **8.lxxxiii**, 152
 its liveliness, **6.16**

logical, **3.69**, 70, 71, 73, 102, 103, 106, 107, 280
 low sensibility of its conscious part, **6.394**
 vs. machine, **2.248**, **6.16**, 65, 70–71, 429
 as machine, **4.45**
 and matter, **5.xlii**, **8.xxx**, 14–15, 43, 105, 181, 193, 408
 mental act, **3.98**
 mental action, **3.19**, 24
 mental affection, **3.48**
 mental habit, **4.249**
 mental representation, **3.235**
 more general than person, **6.439**
 myopic vs. presbyopic, **6.381**
 its natural bias, **8.19**
 natural ideas of, **8.xxxvii**, 95
 natural procedure of, **3.19**
 nature of, **3.31**, 35, 83
 not modification of matter, **6.499**
 and objects of thought, **3.80**
 objects relative to, **3.51**
 one of three worlds, **1.83**
 operations of, **4.411**
 origin of triadic conceptions, **6.182**, 183
 private, **3.57**
 and reality, **3.8**, 29–30, 78
 reality of, **2.240**
 and real objects, **2.467–68**, 470–71
 and representation, **2.227**
 representation addressing itself to, **3.62–63**, 66
 its residential nerve-matter, **6.lxxix**, 381
 and sensation, **3.52–54**
 vs. sense, **6.187**
 its shadowed side, **6.496**
 as sign, **2.240**
 and sign, **5.111**, 162, 245
 sign addressing itself to, **3.67–68**, 77, 82–83
 sole self-intelligible thing, **8.124**
 specialization of matter in elliptic philosophy, **6.392**
 state of, **8.96**, 103, 153
 stimulated by doubt, **3.262**, 360
 its subjection to law, **8.153**
 succession of images in, **3.63**, 69, 71, 103
 syllogistic process in, **2.214**
 thinking part of, **3.29**
 thought as operation of, **3.46**

Mind (*continued*)

- three categories of mental phenomena, 8.xxxvii, 95–97, 103–5, 109
- three departments of, 6.183, 446–47
- unaided, 6.70–71
- universal, 1.167
- what is internal and external to, 3.49–50
- See also* Action, mental; Association; Brain; Consciousness; Growth; Law of mind; Reason; Soul; Spirit; Telepathy
- Mind*, 4.xi, lviii
- Mind-body problem, 8.lxxxix, lxxxixn.110
- Mineralogy, 8.173
- “On Minimum Differences of Sensibility” (P 282), 5.xxii
- Minsheu, John, 1.123n, 132
- Minus sign, 8.63, 64
- Mirabeau, Honoré Gabriel Riqueti, Comte de, 5.29, 33, 36, 8.264, 278, 279, 640
- Miracles, 8.112
 - religious, 6.61
- Miserliness, 8.187, 188, 189
- Miss Ware’s school, 8.46, 376
- Mitchell, Oscar Howard, 4.xxxiii, xxxviii, xxxix, li, lii, lvi, 458, 587, 5.xxvii, xlvi, 177, 433, 6.li, lxxx, 274, 429, 8.379
 - on Boole’s algebra, 4.406–7
 - on copula, 4.421
 - on logical algebra, 5.372
 - on logic of relatives, 5.371, 371n
 - his method used by Marquand, 6.66–67
 - his multidimensional logic, 5.110, 115
 - his notation, 4.394
 - on proposition, 4.403, 463, 495
 - on quantification, 5.114, 178, 179
 - his temporal logic, 6.474
 - his use of indices, 5.xx, 164
 - “On a New Algebra,” 4.in, 587, 590, 592
 - “On a New Algebra of Logic,” 5.xxn, 107, 111, 164n, 224n, 6.66
- Mitscherlich, Eilhardt, 5.29
- Mnemosyne, 8.193
- Mocenicus, Phillippus, 2.112
- Modality, 1.256
 - of the conception, 1.18
 - perfect degrees of, 1.38, 186, 530
- Mode
 - necessary, 1.38, 47–48
- Modulus, 8.2
 - of gravitation, 8.161, 399
- Modus ponens*, 5.330–35, 342, 364, 366, 367, 463, 8.1, 210, 212, 213, 237, 421, 428, 429
 - consequentia*, 5.240
 - hypothetical syllogism, 5.345
 - rule of, 5.363, 370, 371
 - and second icon, 5.171
 - usefulness of, 5.459
- Modus tollens*, 5.330, 345, 350
 - and fourth icon, 5.173
- Mohl, Hugo von, 8.399
- Molecular dissociation, 8.lxxxix, 172, 176, 177, 406
- Molecular theory, 8.167–73, 403–4
 - of protoplasm, 8.xlix, lxxx, lxxxix, 158–64, 165, 173–79, 181, 182, 399, 400, 408
- “A Molecular Theory of Protoplasm,” 8.lxxiv, 594
- Molière, 5.29, 33, 35, 8.264, 279, 639
- Molition, 5.446
 - See also* Volition
- Möller, Nicolaus, 2.316
- Moltke, Helmuth von, 5.29, 33, 36, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 8.264, 278, 279, 639
- Molyneux, Peter
 - his definition of logic, 1.163
- Moment
 - infinitesimal duration, 8.lxxxiii, 138, 154–55
 - vs. instant, 8.146
 - last in a series, 8.393
 - See also* Duration; Instant
- Monad
 - chemical, 6.442
 - Kempe’s “unit,” 6.473
 - point denoted by letter in mathematics, 6.268
 - of second and third order, 6.268–70, 473
 - set of plurality one, 6.360, 361
 - ultimate particle of matter for Cantor, 6.471
- Monads, 1.144
- Monge, Gaspard, 5.29, 33, 37, 8.264
- Monism, 8.xxxviii.20, xlii, 18, 22, 43, 105, 364, 374
 - Hegeler’s, 8.xxxiii
 - of physiological psychologists, 8.xxx–xxxi, 14, 236, 428–29
 - Wundtian, 8.429

- The Monist*, 4.588, 6.xliv, 8.xliv, xlvii, liii, liv, lxxiii, lxxiv, lxxviii, lxxix, lxxxii, lxxxv, lxxxvii, lxxxviii, 111, 126*n*.1, 135, 165, 201, 203, 594
 its first issue, 8.xlii, 42–43, 372, 544–45
 meaning of its name, 8.43
 metaphysical series, 8.xxxv, xxxvi, xlv, lxxiii, lxxvii, lxxxii, xciv, xcv–xcvi, 525–26
 origin of journal, 8.xxxiii–xxxiv
 Peirce’s sixth paper for, 8.xciv–xcv
- Monist* Metaphysical Series, 6.lxxx, lxxxiv
- Montague, William Pepperell, 3.xxx, xxxi
- Montaigne, Michel Eyquem de, 5.29, 33, 35, 71–72, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95–103, 104–6, 433, 6.liii, 8.264, 277, 639
 Essays, 2.113
- Montesquieu, 5.29, 33, 35, 8.264, 279, 448
- Montgolfier, Joseph and Jacques, 8.268
- Montgomery, Edmund Duncan, 8.165*n*.1, 368, 389, 435
 his exchange with Peirce, 8.402–3
- Montgomery, Thomas J., 8.lxxxvi, lxxxvii
 Master in glomery, 8.188, 411
- Monti, Vincenzo, 8.278
- Mood. *See* Syllogism
- Moods. *See* Syllogism, moods of
- Moore, Edward C.
 Studies in... Peirce, 4.572
- Moore, Eliakim H., 8.lix
- Moore, Thomas, 8.277
- Moral
 sense, 2.172, 206
 sentiments, 2.485
- Morality, 1.16, 496, 6.440
 Christian, 5.229, 230
 and knowledge, 1.12
 of non-adherence to articles of creed, 8.li, 240–41, 429–30
 Perrin on, 5.257
 realist and idealist, 5.231–32
 “Morality and Church Creed” (sel. 38), 8.li, 626–27
- Morals
 conservative, 8.lii, 242
 vs. ethics, 5.420
 moral ideas no deterrent from evil, 8.464
 moral teachings of science, 8.lxxxiv–lxxxv, 346–48, 465
 of scientific research, 8.lxxxiv, 345–46, 465
 teaching of, 6.32
See also Ethics; Love; Punishment
- Moral science
 calculus applied to, 3.109
- Moral wealth, 6.200–201
- More, Thomas, 5.29
- Morell, John Daniel, 2.133
- Morgan, Lewis Henry, 4.380
- Morin, Frederic, 2.490
Dictionnaire de philosophie, 2.72*n*
- Morley, Edward W., 6.xliii, xlii*n*.23
- Morphology, 1.9
- Morphy, Paul Charles, 5.29, 33, 37, 77, 79, 81, 83, 85, 87, 89, 90, 93, 95, 104, 8.lxv, 264, 639
- Morris, Charles D., 4.xxxix
- Morris, George S., 4.xi, xlii, li, lix, lxii, lxiii, lxvi
- Morse, Samuel, 8.419
- Mortality
 result of Darwinian evolution, 8.102*n*.1
See also Death
- Morton, Henry, 3.226
- Morton, William Thomas Green, 8.204, 205, 413, 419
- Moses, 5.29, 33, 38, 8.264, 268, 442–43, 444
- Mother-wit, 6.lxxxix, 387
- Motion, 1.34, 38, 54, 148, 202, 2.112, 178, 228, 230, 8.33, 43
 absolute, 8.lxiv, 468
 accompanying feeling, 8.408
 of cannon-ball, 8.93
 chance-, 8.182, 408
 component, 8.105
 equations of, 8.16, 433
 laws of, 2.188, 190, 8.lii, lxxxvii, 22, 242, 404
 linear, 8.229–30, 426, 622
 molar, 8.432
 molecular, 8.lxxxix, 159, 163, 164, 165, 167, 175–78, 403, 404, 432
 neighboring, 8.409
 object of learning, 8.152
 orbital, 8.176
 paradox of, 2.173, 183, 254, 256
 parallactic, 8.229
 planetary, 8.249, 286–87
 proper, 8.229–30, 425, 426, 622, 623
 property of protoplasm, 6.195
 quasi-orbital, 8.159, 167, 168, 175, 403

Motion (*continued*)

relativity of, **8.lxxxvii**, 353–54, 468
 requiring synthetic consciousness, **6.214**
 of stars, **8.229–30**, 425–26
 stationary, **8.168**, 403
 stellar, **8.621**, 622
 in straight line, **8.99**, 100
 wave-, **8.148**
See also Paradox; Velocity

Motives

to human action, **8.186–87**, 388
 theory of, **8.112**

Motivity, **5.275n**, 452

Mott, Samuel Dimmick, **8.xlii**

Mouchez, Amédée Ernest Barthélémy, **4.149**,
 565

Mountain Jim, **6.127**

Mozart, Wolfgang Amadeus, **5.29**, 33, 35, **8.264**,
 277, 279, 639

“Mr. Peirce’s Rejoinder”

Gurney’s response to, **6.142–54**

Muchness, **6.257**

Mugwump, **8.397**

in example of hypothetical inference, **8.151–**
 52

Muir, Thomas, **8.370**

The Theory of Determinants, **8.xxxviii–**
 xxxix, 36–37, 370, 544

Mulcaster, Richard, **1.121**, 123, 125, 129–30,
 131*n*, 136, 138–43

Müller, Johannes, **5.29**, 33, 38, **8.264**, 639

Müller, Max, **5.29**, 430

Multhaus, Robert P., **6.lxviii.46**

Multiplication, **2.446**, 493, **4.188–89**, 190, 193,
 194, 261, 262, 263, 264, 303, 330

of absolute terms, **2.372–75**

and addition, **4.25**

and algebra, **4.liii**

in algebra, **4.228–29**, 304–6, 316–18, 383–
 84, 454

algebraic, **2.361**

arithmetical, **2.60**, 64, 65, 66

associative, **3.198–200**, **4.27**, 33, 456, 482

associative principle of, **2.371–72**

and card-counting, **8.3–11**

of chances, **3.294**

commutative, **4.30**, 304

and copula, **3.187**, 188

defined, **4.24**, 29, 31, 223–24

distributive, **5.165**

dropping of factors in, **6.5**, 159

external, **4.204**

external and internal, **3.238–39**

functional, **2.361–62**, 372

internal, **4.27**, 29, 31, 33, 181, 454

invertible, **2.361**, 492–93, 494

and involution, **5.192–93**

and logarithmic scale, **8.49–51**

logical, **2.xlvi**, 13, 15, 21, 60, 61, 369–76,
 445–46, **5.xxvi**, 113, 381–87, 422, 433,
6.1–2, 51, **8.55**, 75–77, 255, 256

logical properties of, **5.383**

of logical terms, **3.200–201**

meaning of, **8.66**, 77

non-associative, **3.198**

non-invertible, **2.492–93**, 494

non-relative, **4.182–83**, 331, 344, 454, 455,
5.113

notation of, **4.xlv**

its parallelism with logical addition, **5.435**

polar, **8.37**

of premises, **6.157**

of probabilities, **3.290–91**

properties of, **6.2**, **8.66**

of propositions, **5.177**, 179*n*, 192–94, **6.4**, 6

and quantification, **5.114**

of quaternions, **4.334–35**

relative, **4.204**, 331, 332, 338, 343, 392,
 455–56, 482

of relative numbers, **3.287–89**

of relative terms, **2.369–74**, **3.201**

and rule of three, **8.52**

sign of, **5.107–8**, 110, 114, 177, **6.1**, 51, 269,
8.55, 71, 255

of vectors, **3.238–39**

See also Conjunction; Erasure; Logic;

Product

Multiplicity, **8.134**

See also Multitude

Multitude

continuously infinite, **8.lxxv**, 132–33, 134,
 390–91

discretely infinite, **8.132**

greatest — that can present itself, **8.133**,
 391

three classes, **8.130**

See also Number; Quantity

Muncke, Georg Wilhelm, **4.372**

Munkácsy, Mihály von, 5.29, 35
 Murat, Joachim, 5.29
 Mure, William, 1.21
 Murner, Thomas, 8.xxix, 1, 362, 363
 Murphey, Murray G., 5.xx, 6.lxxxn.58, lxxxiiin.66, 8.396
 on Peirce's intellectual development, 5.xlv–xlvi, 6.lxxx, lxxxii
 The Development of Peirce's Philosophy, 5.xixn
 Murphy, Joseph John, 4.1, 407, 561, 6.448, 450, 8.379, 594
 Habit and Intelligence, 4.39, 561
 Muscle
 muscle-cell, 8.16, 105, 158, 163
 muscle-protoplasm, 8.159
 muscle-slime, 8.173, 175, 177
 thinking with, 8.14
 See also "Muscular" under Action, Effort, Imagination, Physiology
 Museum of Comparative Zoology (Harvard), 3.xxii, xxiii
 Music
 as analogue of thought, 3.263, 361
 Mustness, 8.150
 "Mutual Attraction of Spectral Lines" (P 156), 4.561–62
 Myer, Albert James
 Meteorological Reports and Weather Maps, 3.170
 Myers, Frederick William Henry, 6.xxxiv, xli, xlii, 61, 74, 80, 81, 112, 147, 147n.2, 426
 postscript to Gurney, 6.153–54
 "My Life" (sel. 12), 8.xliv, 545
 Myrvold, Wayne C., 8.393
 Mysticism, 3.253, 321, 351, 8.lxxvi–lxxviii, 135
 Mythology, 8.184
 and inference from resemblance, 5.327

N

Nägeli, Carl Wilhelm von, 8.191, 413
 Name, 2.74, 154, 331, 4.333, 483, 8.381
 absolute, 2.73, 112, 330
 abstract, 2.115–16, 154
 analogous, 8.87
 categorical distinctions of, 8.86–87
 class-name, 5.168, 338
 common, 8.86

concrete, 2.154
 connotative, 2.73, 112, 330
 equivocal, 8.87
 finite, 8.86
 of first imposition, 2.330–31
 general, 2.103, 305
 as general sign or token, 5.243, 245
 as imperfect representation, 3.64
 infinite, 8.86
 as logical form, 5.243
 naming as denoting, 3.89
 naming vs. signifying, 5.360
 negative, 8.87
 positive, 8.87
 privative, 8.87
 in proposition, 5.245
 of second imposition, 2.330–31
 singular, 8.86
 synonymous names, 3.100
 term as, 5.245
 true application of, 3.99
 univocal, 8.87
 See also Noun; Predicate; Sign(s); Term(s)
 Nantucket
 used as metaphor, 8.201, 417
 Napier (Neper), John, 5.29, 8.48, 51, 378, 452
 Neperian base, 4.258
 Napoléon Bonaparte, 5.29, 33, 36, 330–31, 430, 8.lxvi, 264, 267, 277, 279, 444, 639
 Nares, Robert, 1.132, 141
 Narses, 8.277, 278
The Nation, 2.xxii, xxiv, xxx, 3.xxxii, 5.xxvii, xxxvi, xxxvii, 437, 8.li, liiin.44, lvii, lviii, lxi, lxv
 Peirce's reviews for, 6.lxxv, 8.xxvi, xxx, xxxvii–xxxviii, xl, xli, xlix–li, lii, lxi, lxv–lxviii, lxx, lxxviii, lxxx–lxxxii, lxxxiv–lxxxv, lxxxv, lxxxvii–lxxxviii, 527–31
 National Academy of Sciences, 1.xvi, xxii, 2.xxxi, xlv, 3.xxvii, 5.xxii, xxv, xxvii, 6.lvi, 8.liv, lix, 623
 National Academy of Sciences Committee on Weights, Measures, and Coinage, 8.lxxxv
 National Bureau of Standards, 5.xxviii, xlvi, 438
 National Observatory, 4.155, 6.342
 See also Washington Observatory
 "On the Natural Classification of Arguments" (P 31), 4.169n, 569, 6.166, 439
 Natural History, 1.3, 51, 54

- Natural Philosophy, 1.3, 54
- Natural selection, 6.201, 8.414
 categorial analysis of, 6.l, 176
 Darwin's conception, 8.190
 doctrine of, 8.204
 and mind's natural bias, 8.19
 and reproductivity, 6.200, 8.102
 suggested by statistical science, 6.450
 its three factors, 6.202, 453
- Natural selection, law of, 2.486
- Nature, 4.447
 abhorring vacuum, 8.243, 432
 affinity of mind with, 8.94–95, 352, 383
 affinity of the mind with, 6.37, 386
 its conformity to law, 5.293, 343
 effort of, 5.390
 equal possibilities in, 3.298–300
 explanation of, 6.xlviii
 facts of, 8.33
 female and male, 1.14
 general manifoldness of, 6.206
 human, 2.124–25, 126
 the immaterial in, 1.56
 inward, 1.15
 in Ionian philosophy, 6.181
 lack of uniformity in, 1.417–18
 laws of, 3.81, 166, 204, 308, 333–34, 4.lxx, 2, 252, 422–23, 548, 551–52
 manifestations of, 1.54
 natural class in, 1.419
 natural force, 3.166
 natural selection, 3.244–45, 318–19, 341–42, 4.lxviii, lxix, lxx, 46, 489, 548
 new conception of, 8.271
 as object of painting, 5.380
 orderliness of, 3.312
 prevalence of averages in, 6.256
 principle of the uniformity of, 1.414–16, 419–21
 reason in, 6.386, 392
 regularity in, 3.81, 300, 306, 307, 6.110–11, 178, 409
 similarity in, 3.277
 its subtlety and intelligibility, 5.286
 thirdness in, 6.443
 and thought, 8.17, 19, 23, 24
 and the three categories, 6.176
 its uniformity as grounding reality, 5.228
 uniformity in, 4.ciii, 440–41, 444, 446, 546, 568, 8.32, 123, 242, 352, 368
 uniformity of, 2.264–66, 3.308–9, 308*n*, 312, 314–16, 330
 its variety, 6.63
 variety and complication of, 8.122–24
See also Adaptation; Induction; Laws of nature; Science; Universe; World(s)
- Naught. *See* Zero sign
- Nautical Almanac*. *See* *American Ephemeris and Nautical Almanac*
- Nautical Almanac and Astronomical Ephemeris*, 5.408
- Necessarianism, 8.388
- Necessary, 1.27
 meaning of the word, 1.200–201
- Necessitarianism, 2.261*n*, 3.41, 4.lxx, 8.lxxiv, 111–25 *passim*, 126, 153, 179, 192, 388
 its baselessness, 8.lxxx
 criticism of, 6.xxxiv, lxxxiii, 454
 doom of, 6.64
 E. D. Montgomery's view on, 8.402–3
 essence of, 8.116
 false generalization of physics, 8.186
 five arguments against, 8.122–24
 and materialism, 8.123
 physicist's way of thinking, 8.xcii, 414
 in religion, 8.155
 stoic, 8.112
 three counter-arguments answered, 8.124–25
See also Anancasm; Determinism
- Necessity, 1.18, 43, 47, 220, 347
 absolute, 8.152
 blind *anankê*, 8.150
 a category of the It, 1.530
 degree of modality, 1.38
 doctrine of, 8.liii, 112, 388, 402
 fate as, 3.44
 first category, 1.331
 vs. freedom, 5.xxxvi
 interfered with in nature, 8.122
 inward, 8.415
 logical, 5.170, 332, 333
 material, 5.333
 and mathematics, 3.83
 mechanical, 8.xciii, xciv, 122, 155, 192, 194
 necessary deduction, 3.328
 part of logical triad, 5.243
 principle of universal 116, 8.125

- Necessity (*continued*)
 and process of investigation, 3.81
 three kinds of, 1.94
 and universality, 1.27, 154
See also Destiny; Fate; Inference;
 Possibility
- Necessity, absolute, 2.112
- Necker, Jacques, 5.29
- Negation, 1.4, 48, 480, 5.433
 of antecedent, 6.5
 a category of the It, 1.530
 definition by, 8.144
 definition of, 5.114, 460
 and determination, 2.147, 149–50, 231
 of an expression, 6.6, 53
 and fourth icon, 5.xxxiii, 172–73
 and generality, 2.103
 an influxual dependency of quality, 1.39
 as Kantian category, 5.236*n*
 properties of, 3.191–94
 as relative, 2.420–21
 and secondness, 6.171
 sign of, 5.108, 110, 174, 384, 6.4, 6, 53, 8.55
 vinculum as sign of, 5.177
See also Assertion; Falsity; Logic
- Negation (Negative), 4.177, 186, 392, 477, 497
 in Boolean algebra, 4.478
 and copula, 4.166–68, 179–80, 347
 defined, 4.26, 28–29, 30, 33, 185–86
 De Morgan on, 4.172, 256
 determination through, 4.8
 and erasure, 4.221
 notation of, 4.166
 of a number, 4.306
 properties of, 4.214, 216–17
 of relation, 4.347
 of relative, 4.196, 198–202, 204, 205–9,
 330, 340, 342–44, 454–55, 456, 481, 482
- Negative name, 8.87
- Negatives, 1.43, 229, 301, 346, 374
 “A Neglected Argument for the Reality of God,”
 8.lxxxiv
- Negus, T. S. & J. D., 6.486
 chronometer of, 5.4, 13–14, 21
See also Chronometer
- Neighbor, 8.xci, xcii, 185, 189, 383, 415
- Neighborhood
 neighboring feelings, atoms, cells, motions,
 8.408–9
 of point, 8.146
- Nelson, Horatio, 5.29, 33, 36, 8.264, 639
- Nerve cell
 able to feel, 8.398, 408
 as active and passive, 6.188, 448
 disturbance in, 8.158
 excitation of, 6.l, 190–92, 193, 8.16, 96,
 105, 163
 vs. muscle cell, 8.163
 nerve-protoplasm, 8.159, 180
 nerve-slime, 8.173, 175, 177
 vs. protoplasm, 8.147
- Nerve matter
 and consciousness, 8.xxxvi
 coordination within, 8.148
 excitation of, 8.96
 habit formation in, 8.lxxx, 105
 properties of, 8.81, 380
See also Protoplasm
- Nervous system
 doubt as irritation of nerve, 3.22–23
 excitation of nerve, 3.125, 337
 its three fundamental functions, 6.l, 193,
 215, 448
 and volition, 3.122–23
See also Nerve cell; Physiology; Protoplasm
- Netto, Eugene, 8.lxxx
- Neuron. *See* Nerve cell
- Neurophysiology, 6.188–98, 448, 449–50
- Neutralism, 8.105, 106, 364
- Newberry, John Strong, 6.276, 475
The New Calendar of Great Men, 5.xxiv
- Newcomb, Mary Hassler, 4.lxvn
- Newcomb, Simon, 4.xxi, xxxii, xl–xli, lxii, lxiv,
 350, 351, 376, 5.xxv, xxviii, xxxii, 6.lv, lix*n*.38,
 lxi, lxiv, 434, 8.xli, xliv, lix, lxiii–lxiv, lxvi,
 lxviii, 248, 411, 425, 439, 623
 his criticism of the *Century Dictionary*,
 6.lix
 his criticism of tile “Report on Gravity,”
 6.lxv, 486
 on infinity, 8.lxix
 Peirce’s criticism of, 8.xciii.115, 186–87
 Peirce’s nemesis, 5.xlvii
 his rejection of Peirce’s paper, 5.xxxiii–
 xxxiv, xxxiv*n*, xliii
 his three kinds of love, 8.186
Principles of Political Economy, 2.xxxxv

- “A New Computation of the Compression of the Earth” (P 210), 4.593
- “New Elements of Geometry,” 8.xliii
- “New Elements of Mathematics,” 8.xliii
- Newlands, John Alexander Reina, 8.lxix, lxx, 204, 284, 285, 419, 450, 451, 649, 650
- “On a New List of Categories” (P 32), 4.211n, 5.238, 238n, 6.166, 439
- New Testament, 3.285
- Newton, Hubert A., 8.xlv
- Newton, Isaac, 1.101, 2.112, 113, 219n, 435, 3.384, 386, 4.48, 489, 5.29, 33, 37, 198, 303, 6.310, 385, 495, 501, 8.lxi, lxvi, lxxxvii, 34, 95, 100, 264, 268, 269, 271, 277, 346, 352, 369, 383, 399, 418, 445, 468
- accomplishment of his philosophy, 6.400
 - on hypothesis, 4.419, 588
 - importance of, 1.103
 - and inductive reasoning, 1.186, 283
 - Newtonian potential, 4.68
 - Newtonian rings, 4.5, 131, 560
 - Principia*, 2.219n
 - Principia*, 4.588
- New York, 8.398
- New York Evening Post*, 5.xxvii, xxix, 8.xxvi, 529–30
- New York Evening World*, 8.lxxviii, 671
- New York Mathematical Society, 8.liv, lix, 425
- New York Post*, 6.lxxv
- New York Public Library, 8.xxvi, 595
- See also Astor Library
- New York Times*, 8.xxvi
- debate on Spencer, 6.lxxiv, lxxvi–lxxviii, 8.xxv
- Next (greater)
- axiom and postulate of, 6.155, 438
 - in logic of number, 6.156, 157, 160
- Niagara Falls
- Peirce’s sojourn at, 5.xxxi
- Nicholas of Cusa, 8.268
- Nicholls, Charles Wilbur de Lyon, 4.lxiii–lxiv
- Nichols, Herbert, 6.lxvii, lxviii.50
- Nichols, Lydia Ropes, 1.xv
- Nicol, William
- prism of, 3.389, 398, 399, 405–6
- Nicole, Pierre
- L’Art de penser*, 5.360, 462
- Nicole, Pierre, and Antoine Arnauld. See Port-Royal Logic
- Niebuhr, Barthold Georg, 5.29, 33, 38, 8.264, 639
- Nightingale, Florence, 8.280
- Nihilism
- idealist’s retort, 8.80
- Nineteenth century, 8.110, 188, 189
- Economical Century, 8.186
- Nirvana, 5.251, 450
- in pessimist outlook, 6.174
- Nixon, Henry B., 4.lxvi
- Noble, Marie B. D., 6.35, 37
- Noble, N. A. Brian, 8.393
- Noddy, 6.298
- origin and design of, 5.262–63
 - used in pendulum experiments, 5.xxi, 262–74, 317–18, 452
- Node
- definition of, 6.492
- Noel, Edward, 6.492
- The Science of Metrology*, 6.lxxv, 377–79
- Nominalism, 2.xxv, xxvii, 235, 239, 240, 305, 468, 3.xxix, 4.lxix, 8.137, 150, 153, 397
- on abstract vs. concrete, 2.328
 - almost exploded, 8.352, 467
 - of British logicians, 2.310–11
 - and cognition, 2.180–81
 - and dependent being, 2.153–54
 - Ernst Mach’s, 8.468
 - extreme, 8.390
 - futility of, 8.149
 - and individualism, 2.175, 486
 - Kantian, 8.352
 - and love of life, 2.125
 - modern, 2.474, 475–77, 485–86
 - and modern science, 2.488–89
 - nominalism-realism controversy, 2.xxviii, 276–78, 320, 328, 335–36, 464, 467–68, 471, 486–88, 490
 - in not explaining the unchanged part of experience, 6.409
 - its notion of definition, 5.417
 - its notion of entity, 5.405
 - of Ockham, 2.474–75, 5.282
 - Pearson’s, 8.lxxxvii
 - Peirce’s early, 5.xlv, 6.lxxxii, lxxxiii
 - and Platonism, 2.464, 480–81
 - and probability, 2.xxvi, 98–100, 102
 - and realism, 3.272, 371
 - vs. realism, 8.353
 - on similarity, 2.306

- Nominalism (*continued*)
 spirit of, 6.187
 as theory of reality, 2.175, 181–82, 468, 470–71, 479, 490
 as a theory of reality, 3.29, 55
 theory of terms in, 2.317
See also Conceptualism; Materialism; Particulars; Realism; Reality; Universals
- Nominalists
 dispute with realists, 1.360
- Nomology
 in classification of sciences, 8.275, 447
 in plan for dictionary, 8.293
- Non-being, 2.139–40, 6.445
See also Being; Nothing
- Non-ego, 1.155
 perception of, 8.78
- Nonentity
 vs. entity, 2.103
 as zero class, 2.14
See also Being; Entity; Nothing
- “The Non-Euclidean Geometry” (sel. 45), 8.lxvii–lxviii, 643–45
- “The Non-Euclidean Geometry Made Easy” (sel. 6), 8.xxxi, xxxi–xxxii, 541–42
- Non-existence, 2.423–24
- Nonions, 4.lvii, 386, 467–68, 470–71
 novenions, 4.lviii, 470*n*
- Nonsense
 resemblance to a symbol, 1.174
 as unthinkability, 3.80
See also Absurdity; Meaninglessness
- North American Review*, 3.xxiii, xxxi, xxxii, xxxiv
- Nota Notae*, 1.290, 4.167, 174, 251, 568–69, 5.337–38, 459
- Notation
 advantage of its system, 5.373
 of algebra, 4.203–4, 208, 219, 221, 243, 469, 470
 algebraical, 8.63, 64, 69, 612–13
 for Arabic numerals, 8.63–64
 Boole’s, 4.407
 Boolean, 5.167–68, 174
 of collections, 5.186
 efficacy of, 5.188–90
 forming of, 5.115
 for geometry, 6.357, 487–88
 in geometry, 8.58
 graphical, 4.xlv
 iconical, 5.190
 for illative relations, 5.341
 of inclusion, 4.lxii
 Kempe’s graphical, 6.xlv
 logical, 4.xlv, 218–19
 of logical algebra, 6.xlix, 263
 of logic of relatives, 4.306, 336–37, 394–99, 469
 McColl’s, 4.407
 of negation, 4.166
 philosophy of, 5.xxxii, 162–90
 Polish, 5.460
 of propositions, 4.218
 quantifier, 4.xvii, lx, 171, 496–97
 of quantifiers, 5.109–10, 114, 164, 178–81
 for relatives, 8.55, 139
 signs used in logical, 5.163–65, 174, 444, 8.63, 64, 440
 single copula notation, 4.221
 system of, 1.224, 5.111
 of truth-values, 5.112, 166–67, 175, 439
 umbral, 8.37, 370
See also Addition; Algebra; Algebra, signs used in; Claw; Colon; Copula; Dollar sign; Hamilton, William; Icon; Inclusion; Index; Letter; Mark; Multiplication; Sign(s); Streamer; Token; Vinculum; Zero sign
- “Note B” (item 66), 4.lii, lvi, lix
- “Note on Grassmann’s Calculus” (P 125), 4.231*n*, 333*n*, 576
- “Note on Kant’s Refutation of Idealism” (sel. 20), 8.xxxii–xxxiii, 563
- “Note on Pythagorean Triangles” (sel. 13), 8.xliii, 546–47
- “Note on the Effect of the Flexure... Oscillation” (item 43), 5.xxxii
- “Note on the Sensation of Color” (P 100), 4.161, 568
- “Note on the Theory of the Economy of Research” (item 12), 4.xxix
- “Notes for ‘Man’s Glassy Essence’” (sel. 28), 8.lxxx, lxxxviii–lxxxix, 595, 596–98
- “Notes for Paper on the Law of Mind,” 8.160
caption, 597
- “Notes on Consciousness” (sel. 21), 8.xxxvi, 564
- “Notes on the Algebra of Logic” (item 31), 5.xxxiv

- “Notes on the Question of the Existence of an External World” (sel. 19), **8**.xxxii, 79 *caption*, 562
- Nothing, **2**.80, 175, 317, **4**.23
 as an absolute logical term, **3**.201
 as abstraction, **2**.145–48
 and being, **2**.xxxvii, 139–40, 148–51, **4**.8–9
 comprehension and extension of, **4**.8–9
 definition of, **4**.25, 30, 32
 determination of, **2**.149–50
 and disjunction, **3**.87
 as an essentially affirmative term, **3**.101
 not a blank zero, **8**.181
 in original chaos, **6**.209
 origin of universe, **8**.107
 parallel to being or *ens*, **3**.87–88
 and predicability, **3**.37, 86
 pure, **8**.xcv
 as zero class, **2**.14, 60
See also Absurdity; Being; Determination; Unreality; Zero
- Nothingness, **6**.392, 393, **8**.386
- Notion, **1**.152
 a category of the It, **1**.530
 element of consciousness and information, **1**.491
 of first, second, and third, **1**.486
 innateness of, **1**.80–82
 patient, **1**.6–7
 a total quantity of intuition, **1**.39
See also Concept
- Nought
 vs. being, **2**.139, 140–41, 149
 vs. nothing, **2**.146–47
See also Being; Nothing
- Noumenon, **1**.39–40, 42, 144, **2**.470, 481
 Abbot’s noumenism, **5**.288
 notion of, **1**.313
 and phenomenon, **1**.307, **5**.285
 related to externality, **1**.82
 thing as it exists, **1**.60
 three aspects of, **1**.314
- Noun
 abstract, **5**.236
 common, **5**.338, 379
 and pronoun, **1**.xxviii
 vs. pronoun, **6**.419
 in scholastic logic, **5**.360
See also Name
- Nous*, **2**.138
- Nullity
 a category of the It, **1**.530
 first stage of degree, **1**.38
- Numa Pompilius, **3**.26, 251, 348
- Number
 algebraic, **8**.132
 Arabic, **8**.63, 64
 average, **3**.116–17, 285–89
 Catalan, **8**.421, 424
 character of character, **8**.56
 character of collection, **8**.55
 commensurable, **8**.145
 decimal places, **8**.53, 63
 distinguished from quantity, **6**.160
 vs. figure, **8**.64
 finite, **8**.139, 140
 genuine theorem concerning, **6**.160–63
 hereditary character of, **6**.xliv, 156, 438
 higher than three, **6**.174–75
 and the idea of continuity, **3**.278
 incommensurable, **8**.142, 145, 394
 infinite, **8**.134, 140
 integral positive, **8**.201
 irrational, **8**.395
 law of high numbers, **8**.21, 400, 432
 logic of, **6**.xlili–xliv, 156–63, 437–38
 logic of theory of, **8**.xlili, 55–56, 201
 natural, **8**.48, 51
 odd and even, **8**.77
 ordinal, **8**.132–33
 phyllotactic, **6**.41, 42
 pi, **8**.142
 premises concerning, **6**.156–57
 prime, **6**.42, **8**.8, 227, 379, 546–47
 properties of, **6**.155, 161, 162, 163
 in Pythagorean doctrine, **6**.183, 440
 rational, **6**.251
 rational fractions, **8**.143, 395
 real, **8**.57, 142, 144, 145, 395
 relative, **3**.116–19, 285–89
 standing for true or false, **8**.77
 surd, **8**.142, 394
 whole, **8**.132, 140, 141, 142
See also Decimals; Imaginary quantities; Logarithm; Magnitude; Mathematics; Multitude

“On the Number of Dichotomous Divisions”
(sel. 35), **8**.xlvi–xlix, xlixn.19, xlixn.20, 613,
619–21

Numbers

world composed of, **1.84**

Numeration

Arabic system, **8.53**

system of, **8.2**

“The Numerical Measure of the Success of
Predictions” (item 25), **5**.xxvii

“The Numerical Measure of... Predictions” (P
292), **4**.xxxv

Nutrition, **8**.lxxxix, 105, 163

O

Obermayer, Albert Edler von, **4**.105, 564

Object, **1**.xxx, 27, 39, 42, 304, 327–29, 331, 333,
478, 503, **2**.10, 170, 194, 365, 471, 472

abstract, **2**.116, 172

actuality of, **1.28**

of belief, **3.30**, 45, 57–58, 59, 61, 78

of cognition, **2.164**, 190, **3.8**, 80

in collection, **8.56**

of a concept, **3**.xxix, 266, 365

of consciousness, **2.167**, 171, 190, **3.39**,
262–63, 360–61

defined, **1.274–75**

denotative and connotative, **1.275–78**

denoted, **3.84**

division of, **1.486**

dynamical vs. immediate, **6**.lxxxii

external, **2.178**, 179, 470

of feeling, **3.39**

fictitious, **3.46**, 49, 57–58, 61, 79, 86, 271,
280, 370

of final opinion, **3.30**, 57, 58, 59, 79–80,
273–74, 305, 372–73

finite class of, **8.133**

formal, **1.524**

general, **3.235**

imaginary, **2.467**, **3.61**

immediate, **2.136**, 164, 167, 170, 190, 471,
472, **3.34**, 39, 54, 60, 262–63, 360–61

independent of thought, **2.480**

indeterminate, **3.114**, 235

individual, **2.467**, **3.235–36**

internal, **2.171**

as It, **1.165**

material, formal, and representative, **1.275**

of mathematics, **2.59–60**, 483

or matter, **1.335**

mediate, **3.262–63**, 360–61

mere logical form, **1.61**

natural, **3.320**

not separated from subject in pure feeling,
6.214

in objective idealism, **8.391**

of observation, **3.246**, 343

a priori and *a posteriori*, **1.152**

of pure feeling, **8.96**

real, **2.467–68**, 470–71

reference of index or symbol to, **1.525**

reference to, **1.477**, 479, **2.56**, 57, 59

as relate, **1.481**

in relation, **8.55**, 63

relation to Christian Trinity, **1.503**

relation to symbols, **1.280**

relative to the mind, **3.51**

of representation, **1.480**, **3.62–66**, 68

represented by the sign, **6.212**, 457

in a row, **8.131**, 132

as second, **6.171**, 211, 441

of sensation, **1.18**

of sense, **2.136**, 170, 472

sensible, **2.468**, 478

of a sign, **2.223–25**

of sign, **3.67**, 82–83, 84

in sign relation, **5.162–63**, 245, 305–6,
379–80

sundered from subject, **6.185**, 214

temporally perceived, **8.138**

thing as thought, **1.60**

of thought, **3.34**, 51, 54, 58, 60, 79–80, 235,
246, 264, 343, 362

See also Symbol(s); Thing

Objectivity

sense of, **6.185–86**

Obscurity

of concept, **3.257–58**, 355–56

of thought, **3.264**, 362

See also Clearness; Distinctness

Observation, **1.5**, **2.166**, 171, 315, **8.95**

accuracy of, **4.73**

all truth ascertained by, **4.246**

astronomical, **8.286**, 287

of brightness of stars, **3.388–92**

comparison of observations, **3.43**

Observation (*continued*)

in deductive reasoning, 5.164–65, 281
 determining quantity, 3.111, 119, 120–22,
 126–27, 375
 of diagram, 6.xxix, 37–39, 70, 187, 258–59,
 386, 8.lxxi
 direct, 2.129–30, 3.335–36, 375, 8.88
 distrusted by ancient thinkers, 5.324
 in dynamics, 8.94
 error of, 3.111, 114, 119, 122–28, 133, 136–
 37, 185, 213, 333, 364–65, 379–80, 405–
 7, 411, 484, 5.416–17
 errors of, 4.80–81, 355, 6.12, 18, 29, 204,
 419, 8.21, 89, 101, 108, 117, 118, 346, 388
 of facts, 3.42, 336
 indirect, 8.88, 117
 and inference, 6.407
 internal, 6.189
 of magnitude of stars, 3.475–77
 and mathematical laws, 4.xlvi
 in mathematics, 5.xliii, 164, 281, 381
 as mental affection, 3.48
 and metaphysics, 3.237
 nature of, 3.44, 58
 as a new idea, 3.41
 object of, 3.246, 343
 observational sciences, 3.379
 part of inquiry, 5.222
 as a part of investigation, 3.40–42, 48, 55,
 57, 60
 physical, 8.23
 positive, 4.lxix
 possible, 2.126, 129
 precision of, 3.126–27, 131–32
 private, 3.42–43, 49, 55, 60
 pure, 2.344–45
 and ratiocination in Kant, 5.258
 and reasoning, 4.400–401
 in reasoning, 6.29, 37–38, 70, 386, 423
 vs. reasoning, 8.251
 of regularity, 8.118
 rejection of, 3.132
 scientific, 2.315, 344–45, 4.354–55, 6.383,
 8.lxxxiv, 346
 in syllogism, 5.164, 258, 281, 344
 and testing hypothesis, 3.331
 and theory, 2.128–29
See also Sampling

“Observations with the Meridian Photometer
 During the Years 1879–1882” (P 271), 5.xxiii
 Obstinacy
 method of, 3.17, 18–19, 25, 26, 28, 331
See also Individual
 Occurrence
 secondness in, 6.171
 sense of actual, 6.185, 186
 Ockham, William of, 1.360, 2.xxv, 73, 239, 311,
 312, 336, 464, 472, 476, 477, 3.3, 5.29, 34, 37,
 77, 79, 81, 83, 85, 87, 89, 91, 93, 95–103, 104–
 6, 281–82, 6.397, 8.lxvi, 264, 268, 418, 443,
 488, 639
 on association of ideas, 2.306
 on conception, 2.331–32
 on the doctrine of *formalitates*, 2.473–75
 on equivocality, 2.332–33
 on general objects, 3.235
 vs. Hobbes, 2.477*n*
 on *Insolubilia*, 2.263*n*
 on intention, 2.331–32
 his life, 5.47
 logica docens, 4.586
 on mental distinction, 2.320
 on names, 2.112, 330–33
 nominalism of, 2.335, 467, 474–75
 Ockham’s razor, 4.lxix
 on quality, 2.278, 334–35, 475
 razor of, 2.303
 on real distinction, 2.240
 on reality, 2.227–28
 on relation, 2.278, 334, 474–75
 on signification, 2.318–20, 330–31
 on similarity, 2.334–35
 on substance, 2.333–34
 on terms, 2.317–20, 327–30, 474
Quodlibeta, 2.418*n*–19*n*
Summa logicae, 2.73, 157, 240*n*, 263*n*, 419*n*
 Ockham’s razor, 8.106
 Oersted, Hans Christian, 5.29
 Office of Weights and Measures. *See* United
 States Office of Weights and Measures
 Of-thinkable, 1.83
 Of-thought
 related to abstractions, 1.84
 as related to the thought-of, 1.62
 as sensation, 1.81
 Ohm, Georg Simon, 4.378, 586, 5.29
 Old Man of the Mountain, 3.22, 247, 344

- Old Probabilities. *See* Abbe, Cleveland (“Old Probabilities”)
- Old Stone Mill, 5.xxii, 139–43, 437
- “The ‘Old Stone Mill’ at Newport” (item 26), 5.xxii
- “The ‘Old Stone Mill’ at Newport” (P 293), 4.xxxv–xxxvi
- Old Testament, 3.285
- Oliver, James Edward, 3.135
- Olympus, Mount, 8.296, 305, 306, 309, 316 *map*, 320–21, 460
- Omar I, 5.29, 34, 36, 8.264, 268, 639
- Omer Pasha, 5.29
- Omission
algebraical principle of, 8.213, 215–16
- Omniscience, 3.14–15, 57
- One
axiom and postulate of, 6.155, 157, 438
conception of, 2.104
definability of, 2.231
leading to dualistic philosophy, 8.109
vs. many, 8.109
as philosophical concept, 5.294, 304, 392, 446
representing being, 3.86
representing *ens*, 3.92
synthetic idea in, 6.445
See also Category; Many; Unity; Zero
- One, two, three
and elements of consciousness, 6.xlviii, 186
meaning of, 6.170, 174, 183
pervasiveness of, 6.xlix, 182
See also Categories
- Onions, Charles Talbut, 8.401
- Ontology, 3.275, 374
- The Open Court, 8.xliv, liii, lxi, lxxix, lxxixn.98, 33, 369, 632–33
origin of magazine, 8.xxxiii
- Open Court Publishing Company, 8.xxix, xxxiv, lxxvii, lxxixn.99, 13, 16, 33, 35, 42, 121
caption, 525, 605, 606, 651
its profession, 8.34
- Operation
associative, 6.2
balanced and unbalanced, 5.108, 434
commutative, 6.2
inverse, 5.197
modes of, 6.269
See also Addition; Inclusion; Multiplication; Negation; Notation; Sign(s)
- Opinion
average, 8.33
criticism of Spencer’s study of, 6.395–96
destined, 3.8, 34, 273, 372–73
final, 2.352, 440, 468–70, 5.222–23, 226–28
final or ultimate, 3.29, 30, 40, 46, 56–59, 61, 79–80, 273–74, 305, 372–73
individual, 2.469
indubitable, 2.357
and metaphysics, 3.8
natural development of, 3.19
natural history of, 6.381
private, 2.356–57
public, 8.464
and reality, 4.xliv
scientific, 2.313–14
scientific analysis of, 6.380
self-evident, 2.165–66
settlement of, 2.352–55, 3.9, 15–19, 24, 40, 42, 43, 45, 55, 248–49, 252–56, 272–74, 345–46, 349–54, 371–73, 4.43
and truth, 4.xliv
as vivisection-subject, 8.21
See also Belief; Community; Individual; Inquiry; Method; Reality
- Oppenheim, Janet, 6.426
- Opperg, Carl, 6.406, 504
- Oppolzer, Theodor Ritter von, 4.517
- Opponency
type of dual relation, 6.364, 489
- Opposition, 1.528
collapse of jingle about, 6.272
- Optics, 8.293
in classification of sciences, 8.275
- Order
begotten by chance, 8.190
collective, 2.265
of continuity, 8.143, 395
cosmos of, 8.lxxxix, 179
of counting, 8.134
distributive, 2.265
indifferent under commutative principle, 8.67, 210, 213
orderliness of nature, 3.312
orderliness of the world, 3.308, 310–12
of parts in endless series, 8.143
perfect, 8.81

Order (*continued*)

“proper —” of cards in a pack, **8.1–12**
passim
 of row of objects, **8.131**
 social, **8.188**
See also Arrangement; Classification;
 Regularity; Series; Telltale row;
 Uniformity

Ordering
 partial, **5.434, 440**
 “The Order of Nature” (P 122), **4.589, 8.xxxvn.16, xxxix, lxxvii**

Ordination
 necessity of, **1.88–90**

Origen, **5.29, 34, 38, 8.264**

Origin
 and firstness, **8.109**

Originality
 of firstness, **6.170, 171, 211**
 in history of thought, **8.418**
 lawless, **6.207**
 not claimed by Peirce, **6.179**
 not found in machines, **6.xxxv, 70**

Osborn, Henry Fairfield, **6.lxxvii, 402–3, 501, 502**

Osman I, **5.29**

Ossoli, Giovanni Angelo, Marquis, **8.46, 377**

Ostwald, Friedrich Wilhelm, **6.470**

Oswald, James, **1.243**

Other
 cognition of, **2.190–91**
 as correlate, **2.55**
 and relative term, **2.365**
See also Category; Representation; Sign(s)

Otherness
 consciousness of, **6.458**
 relation of, **6.364, 365, 368**
 and Secondness, **6.171, 214**
See also Second (Secondness)

Otis, Harrison Gray, Jr., **8.46, 375**

Otis, Harrison Gray, Sr., **8.375**

“Our Glassy Essence,” **8.lxxxviii, 166 illus., 596**
See also “Man’s Glassy Essence” (sel. 29)

Oval
 carpenter’s, **6.492**
 definition of, **6.491**
 plane curves, **6.372–74**

Oxenstierna, Axel Gustaffson, **8.264**

Oxford, **8.39, 86, 381**

Oxford English Dictionary, **1.xxix**

P

Paalzow, Carl Adolph, **3.225**

Pacius, Julius (Giulio Pace), **2.108**

Paganini, Niccolò, **8.264, 639**

Pain, **8.103**
 abnormal sense of, **8.343**
 due to fatigue, **8.129**
 infliction of, **8.341, 464**
 pleasure and, **8.95**

Paine, Horatio, **1.xxvii**

Paine, Thomas, **4.577**

Painting
 and convention, **5.380**

Pair
 vs. couple, **6.365, 368, 488**
 of couples, **6.489, 490 table, 491**
 selfpair and alio pair, **6.365–67, 488**
See also Couple; Relation, dual
 “The Pairing of the Elements,” **8.650**

Paleontology, **8.103**

Palestrina, Giovanni, **5.29, 34, 35, 8.264**

Palissy, Bernard, **5.29, 34, 36, 72–73, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 104–6, 8.xl, 264, 371, 445**
 his opinion about fate of great thinkers, **8.38, 270, 371**

Palladia, Andrea, **5.29**

Palmer, Edward Henry, **2.xxxiv, 8.40, 372**

Palmer, Frederic, **8.429**

Palmer, George Herbert, **4.lxv, 8.lxxx, lxxxii**

Palmerston, Henry John Temple, Lord, **8.280**

Palsgrave, John, **1.124n, 130, 132–33, 134n, 139, 141–42**

Pantheism, **1.83, 2.135, 142**

Pantomime
 three varieties of this artistic kind of representation, **6.213**

Paracelsus, **5.29, 8.264, 639**

Paradox, **2.183, 254, 257, 258, 430**
 of Achilles and the Tortoise, **2.163, 173, 178, 201, 207, 254–56**
 of contraries, **2.257–61**
 of freedom and fate, **2.260**
 Mill’s solution, **2.185**
 of motion, **2.173, 183, 254, 256**
 resolvability of, **2.247, 254**

- Paradox (*continued*)
 three classes of, 2.254
 of truth, 2.261–63
 of Zeno, 2.173, 178, 184, 254, 256–57
See also Insolubilia
- Paradoxes, 1.200–204, 490
- Parallax, 8.108, 385, 386
 heliocentric, 8.426
 negative, 8.lxviii, 108, 386
 quadratic mean of second proper motions, 8.426
 stellar, 8.623
- Parallelogram
 principle of, 8.95
- Parallels
 theory of, 8.272, 446
- Paralogism
 doctrine of, 5.351–52
See also Fallacy
- Parentheses
 algebra's source of power, 6.71
 and associativity, 6.6, 52, 57
 dropping of, 6.5, 57
 erasing of, 8.67, 421
 in logical algebra, 6.2, 158, 8.xlvii, 63, 70, 210, 212, 213, 254, 422, 616
 principle of breaking 215, 8.421
- Parker, Edward M., 8.429
- Parker, Kelly, 8.396
- Parker, Theodore, 1.455, 2.133
- Parmenides, 1.390, 3.280, 5.304, 6.l, 444–45, 454
- Parson, Richard, 5.29
- Particles
 atomicles, 8.lxx, 285, 451
 Boscovichian, 8.lxx, 404, 451
 irregular motion of, 8.118
 kinetic energy of, 8.168, 171, 176
 no absolute presence or absence of, 8.78
 path of, 8.95
 in physical explanations, 8.100
 precisely defined system of, 8.120–22, 123
 precise position of, 8.15
 of protoplasm, 8.163
 system of, 8.168–71, 168*n*.5
 velocity of, 8.120–22, 146, 396
See also Atom; Attraction; Submolecule
- Particular, 1.178, 230, 473
 proposition, 6.273, 474
 vs. universal, 6.272, 274, 384
- Particulars
 being of, 2.153–54
 and induction, 2.174
See also Generals; Individuals; Singulars; Universals
- Partition, 1.353*n*
- Parva logicalia*, 1.379, 2.121, 311, 475, 4.487, 591
- Pascal, Blaise, 5.29, 34, 35, 360, 6.254, 8.lxi, 264
- Pasch, Moritz, 6.472
- Passow, Franz Ludwig
Greek Lexicon, 1.18
- Past, 6.206, 8.xxxii, 80
 and causation, 8.15–16
 vs. future, 8.128, 146
 gone forever, 8.136
 and indeterminacy, 6.208
 infinite, 8.lxxv, 134, 386, 387
 influencing the future, 8.150
 mediate consciousness of, 6.184, 8.79
 past idea, 8.136, 137, 149
 vs. present, 8.397
 recency of, 8.148
- Pasteur, Louis, 5.29, 8.lxv*n*.75, 264, 443, 639
- Patent
 patentable ideas, 8.51–52, 53
- Patrick, Saint, 5.29
- Patterson, Carlile Pollock, 3.xxi, xxviii, 4.xxi, xxiii, xxiv–xxv, xlix, 79, 540, 560, 562, 564, 585, 6.216, 243, 458, 459, 462
- Paul, St., 2.193*n*, 3.285, 5.29, 34, 38, 8.250, 264, 268, 443, 643
 his conversion an example of agapasm, 8.196
- Paulsen, Friedrich, 8.428
- Paulus Venetus (Paul of Venice), 3.3
Sophismata aurea, 2.263*n*, 4.487
- Peabody, Francis Greenwood, 3.xxx, xxxi
- Peano, Giuseppe, 2.xxxi, 4.l, 5.xxxiii
- Pearson, Karl, 5.255, 256, 450, 8.467
 archetype of scientific nominalist, 8.lxxxvii
 review of his *Grammar of Science*, 8.lxxxvii, 352–54, 467–68
- Peary, Robert E., 6.476
- Pedagogy
 applied in correspondence course, 6.16, 34
 and card game, 8.xxix, 1, 363
 by exercise xxx, 6.10–12, 15, 18, 24–25, 26, 29, 30, 422
 in logical teaching, 6.xxix, 271–72

- mathematical, **6.xliii**
 of middle ages, **6.11**
See also Correspondence course; Learning; Teaching
- Peden, W. Creighton, **8.433**
- Peel, Robert, **5.29**
- Peirce, Benjamin (1809-1880) (father), **1.xv–xvi**, **xvii**, **xx**, **99**, **2.xxi**, **xxii**, **xxiii**, **xxiv**, **xxxiii**, **418**, **3.xxiii**, **xxvii**, **xxxi**, **xxxii**, **4.xix–xi**, **xxii**, **xxiv**, **xxx**, **xxxviii**, **xxxix**, **xl**, **l**, **81**, **157**, **560**, **5.xlvii**, **438**, **6.xlvi**, **lvii**, **438**, **482**, **8.44**, **374**, **376**, **418**
 on algebra, **4.225–26**, **312–13**, **471**, **581–84**
 his Criterion, **6.280**, **476**
 his definition of mathematics, **6.257**
 his influence on “Description of a Notation for the Logic of Relatives,” **2.xlii**, **xlvi–xlvi**, **xlvi**, **xlvi**
 on observation, **3.132**
 pendulum studies of, **4.12**
 on quaternions, **2.413–14**, **4.469**, **471–72**
 on the rule of false, **6.471**
 about his son’s ability, **6.xxv**
 as superintendent of the Coast Survey, **3.xxi–xxiv**
 his theory of continental drift, **3.xxii**
 “Function,” **8.377**
Ideality in the Physical Sciences, **5.xli**
Linear Associative Algebra, **2.xxxi**, **xxxiv**, **xlvi**, **413n**, **3.161**, **5.xxvii**
Linear Associative Algebra (items 39-42), **4.xxi**, **xlvi**, **li**, **liv**, **228**, **322**, **576**, **580–84**, **586**
 “On the Uses... of Linear Algebra,” **4.231n**, **591**
System of Analytic Mechanics, **4.93**, **563**
- Peirce, Benjamin, Sr. (1778-1831) (grandfather), **1.xv**, **8.377**
- Peirce, Benjamin Mills (brother), **1.xvi**, **xix**, **4.xx**, **8.376**
 “A Report on the Resources of Iceland and Greenland,” **2.xxii**
- Peirce, Charles Henry, **1.xvi**, **xviii**
- Peirce, Charles S.
 his association with the Open Court Company, **8.xxxiii–xxxv**
 autobiographical account, **6.26–28**
 autobiographical remarks, **8.xliv**, **li**, **lxiv**, **lxxvi–lxxviii**, **lxxix–lxxx**, **xcvi**, **124**, **125**, **135**, **188**, **189**, **240**, **245–46**, **285**, **292**, **296**, **386**, **389–90**, **392**, **409**, **410**, **412**, **413**, **417**, **434–35**, **453–54**
 chemical engineer, **8.lxxxvi**
 childhood reminiscences, **8.44–46**, **135**, **374–77**
 consultant for the Astor Library, **8.xxviii.4**
 contrite fallibilist, **8.xcvii**
 difficulties with the Coast Survey, **6.xxv**, **xxvi** *xxvii* *xxxii* *xxxvi*, **lxi–lxiv**, **lxv**
 his difficulties with the Coast Survey, **8.xxv**, **xxviii–xxix**, **xli**, **xlvi**, **li–lii**, **lx**, **lxii–lxiii**
 dismissal from the Coast Survey, **6.lxvi**, **lxviii**
 enlargement of estate, **6.lxx–lxxi**
 intellectual development, **6.lxxx–lxxxiii**
 his interest in elocution, **8.469**
 his interest in religion, **8.lxxiv**, **lxxvi–lxxviii**
 his inventions and investment schemes, **8.xlii**, **lxxxvi**, **lxxxviii.104**, **548**
 loss of computing proficiency, **6.xxxvi**, **xlvi**
 his May 1892 trip to Cambridge, **8.lxxx**, **lxxxii**
 member of New York Mathematical Society, **8.lix**
 his middle name “Santiago,” **8.xlvn.34**
 money troubles, **6.lxxi–lxxii**, **lxxiv–lxxv**
 most American of all philosophers and a good sport, **8.xcvi**
 move to Milford, **6.xxv–xxvi**, **xxxvi** *xxxviii–xxxix* *move to new house*, **li–lii**, **liii**, **lvi**, **8.xxv–xxvi**
 his mystical experience, **8.lxxvi–lxxviii**, **xcvii**
 obscure American chemist, **8.lxx**, **285**, **451**, **649–50**
 as Outsider, **6.xxvi**, **lxxvii–lxxxvii**, **lxxxiv**, **499–500**
 his personal transformation, **8.lxxvi**, **xcvii**, **xcvi–xcvii**
 his photogravure in *Sun and Shade*, **8.ii** *frontispiece*
 physician for the mind, **6.34**
 relationship with Juliette, **6.xxxvii**, **xxxviii**, **lv**, **lxxii**, **lxxiv**
 his relationship with Juliette, **8.xxv**
 relations with family and friends, **6.xxxvii–xxxviii**, **xxxix–xl**

- Peirce, Charles S. (*continued*)
 his remunerative efforts, **8.xxvi**, xlii, xliii,
 lxi, lxiv, lxx, lxxi, lxxviii, lxxxv, lxxxvii,
 lxxxviii, xci, 595
 his resignation from the Coast Survey, **8.li**–
 lii, lx, lxii–lxiii
 seeking position at University of Chicago,
8.lxxix–lxxx, lxxxi–lxxxii
 his September 1870 trip to Thessaly,
8.lxxi–lxxii, 298 *caption*, 316 *caption*,
 454–55, 456, 457, 458, 526, 656–57
 signing “Outsider,” **8.xxv**, lxxix, 344, 465,
 670, 671
 swindled by T. J. Montgomery, **8.lxxxvi**–
 lxxxvii, xci, xcii, 411–12
 work in geodesy, **6.xxvi**
 his work in geodesy, **8.xxviii**–xxix, xlv–xlvi
 his work on the *Century Dictionary*,
8.xxvii, xxviii.7 (*see also* *Century*
Company; *Century Dictionary*)
See also “Report on Gravity”; *Century*
Dictionary; Correspondence course;
 Karolos Kalerges; *under* “A Guess at the
 Riddle”
- Peirce, Charlotte Elizabeth (Aunt Lizzie), **1.xvi**,
 xviii, **6.xxxvii**, xxxix–xl, xlvi, lxxi, **8.xxv**, 46,
 377
- Peirce, Harriet Melusina Fay (Zina) (first wife),
2.xxviii–xxix, xxxvi, **3.xxvi**, xxxiv, **8.455**, 456,
 458, 463
- Peirce, Helen Huntington (sister), **1.xvi**, **6.xxx**–
 vii, xl
- Peirce, Herbert Henry Davis (brother), **1.xvi**,
3.xxxiv, **6.xxxvii**, **8.xlii**, lxxxvi, 548
- Peirce, James Mills (Jem) (brother), **1.xvi**, xviii,
 xix, **2.xxv**, **3.xxxiv**, **5.xxxiv**, xxxvi, xxxvii,
6.xxviii, xxxiv, xxxvii, xxxviii, xl, xlvi, liii, lv,
 lvi, lxx, lxxi, lxxiii, lxxxi *v*, 434, **8.lxxxii**, 44, 46,
 374, 376, 454
 “Three and Four Place Tables of
 Logarithmic and Trigonometric
 Functions,” **2.459**
- Peirce, Jerathmiel, **1.xv**
- Peirce, Juliette (second wife), **5.xx**, xxi, xlvi,
6.xxv, xxvii, xxxi *x–xl*, xxxvii, xxxviii, xlvi, li,
 lii–liii, liii, liv, lxi, lxiii, **8.xxviii**, xlii, xliv, xlvi,
 lxii, lxiii, lxiv, lxx, 469, 484
 her acting lessons under MacKaye, **6.458**
 away in Europe, **6.lxxi**, lxxii, lxxiii, lxxiv,
 lxxxiv
 away in Europe and Egypt, **8.xxv**
 her bad health, **6.liii**, lv–lvi, lxx, lxxi, lxxiii,
8.xxv
 her origin, **6.xxvn.2**
 her return from Europe, **8.xxvii**
- Peirce, Lydia Ropes Nichols (grandmother),
8.46, 377
- Peirce, Sarah Hunt Mills (mother), **5.xlvii**,
6.xxvii, xl, xli, lxi, **8.xxv**, 44, 454
- Peirce pendulums, **6.283** *illus.*
 their advantages, **6.278**–82
 construction of, **6.216**, 282, 284–85, 459
 heads for, **6.284**
 injury to Pendulum No. 1, **6.218**, 242, 243–
 44, 245, 280, 281, 462–64, 465, 470
 invariable and reversible, **6.278**, 280–81
 length of, **6.349**–51, 352
 loss of mass of Pendulum No. 1, **6.xxxii**,
 xxxiin.7, 218, 220, 243, 465
 their masses, **6.285**–86
 their mean temperatures, **6.301**
 number of oscillations, **6.343**–44
 Old Stand and New Stand, **6.275**, 276, 277,
 284, 286, 287–88 *plate*, 476
 operation instructions, **6.476**–78
 Pendulum No. 1, **6.216**, 217–18, 220, 221,
 235–44, 284, 285, 299, 300, 322
 Pendulum No. 2, **6.218**, 285, 292–93*n2*,
 294, 300
 Pendulum No. 3, **6.284**, 285, 286, 292–
 93*n2*, 294, 300, 350, 353, 482, 483
 Pendulum No. 4, **6.285**, 299, 300, 314
 results of single swingings, **6.326**–38
See also Pendulum; Pendulum experiments
- Peirce’s law, **8.214**, 218, 422
- Pell, John
 Pell-Lucas series, **6.41**, 424
 Pell Number series, **6.41**, 424
- Pendulum
 and buoyancy of the air, **4.98**–99, 109
 its center of mass, **6.217**, 220, 278, 280,
 282, 284
 clock pendulum, **4.540**, 541–43, **5.262**
 coefficient of expansion of, **4.117**–25,
6.221–22, 300, 466
 coincidence of vibration, **4.535**–40, 541–43
 comparison with German Metre, **6.239**
table, 466

Pendulum (*continued*)

- comparison with Metre B, **6.240 table**, 350–51, 466, 477
- correction for elevation, **6.241**
- descent of the arc, **6.222**, **223–25 table**, 279, 310–26
- and determination of gravity, **4.148–51**, 363, 369–76, 541–43
- and determination of the figure of the earth, **4.356–57**, 360–65, 365–69, 377, 529–30, 534, 593
- difference of knives, **5.10**
- distance between knife-edges, **6.217**, 242
- economy of pendulum experiments, **4.77–78**
- effect of air on its period, **5.xxxi**
- effect of spider-lines, **5.12–13**
- effect of temperature on, **5.319–22**
- effects of atmospheric pressure, **6.220**, 222
- effects of temperature, **6.220–21**, 222
- eight forms of apparatus, **6.480**
- equatorial seconds, **6.lxviii**, 290, 292–93*n*2, 293, 348, 349
- errors of swinging, **5.2–4**
- excess of its period of oscillation, **6.220**
- Faye's method, **4.12–20**
- Faye's method of swinging, **3.xxvi**
- and figure of the Earth, **3.xxiv**
- flexure corrections, **8.xlv**, **xlvi**
- flexure of, **5.xxii**, 275–78, 452
- flexure of piers, **6.239**
- flexure of the support, **4.xxxiv**, 131–33, 150, 389–90, 515–28, 567–68, **5.6**, 9–10, 16, 18, 262–74, 452, **6.lxviii**, 27, 292–93, 295–99, 478
- Gautier, **5.xxxi**, **xxxin**
- Gautier pendulum, **4.xxxiv**
- Geneva support, **4.86**, 90, 95, 110–13, 114–16, 127, 129, 132, 141–43
- gravity pendulum, **5.262**, 271, 272, 273, 274
- half-seconds, **8.xli**, **li**, **lxiii**
- head, **6.218**, 243, 460
- influence of noddy on, **5.xxi**, 317–18
- injury to, **5.10–11**
- interchange of knives, **6.280**, 281, 462–64, 467
- invariable, **4.96–98**, 148, 157–60, 361, 367, 369, 372–73, 529–30, 566–67, 593, **6.220**, 279, 282
- invariable vs. reversible, **6.278–79**, 280, 459
- Kater, **5.xxxvii**
- length of, **4.133–37**, 148, 149, 157–60, 356–57, 361–62, **6.218**, 348, 349–51
- measurement of, **6.279–80**, 286, 350–52
- measure of its length, **5.1–2**, 5–6, 7, 14–15, 21–22
- method of eye-and-ear coincidences, **5.16**, 20
- metre pendulum, **6.218**, 282, 459, 477
- non-reversible bar, **8.xli**
- observation of transits, **6.460**
- observations of periods, **6.235–38 table**
- oscillation of, **3.xxvi**, 217–18, 222–23, 226–29
- Peirce pendulums, **5.xxi**, **xxiii**, **xxx–xxxi**, 321
- pendulum case, **6.xxxi**, 217, 219 *illus.*, 243, 461
- pendulum-metre, **4.108**, 120, 122, 124, 133
- period of oscillation, **4.13–20**, 88–96, 98–107, 116–17, 125–30, 130–31, 157–59, 389–90, 473, 518, 537–38, 540, 542–43, 566, **5.2–4**, 6–7, 9, 11–12, 13, 18–20, 452
- period of oscillation at Fort Conger, **6.242**, 468
- and pressure of the air, **4.98–99**, 100–104, 110–13, 148–49, 157–59, 376, 567
- ratio heavy end down to heavy end up, **6.234 table**
- reduction to a vacuum, **4.96–98**, 100
- Repsold, **8.xlv**
- reversible, **4.84–86**, 96–98, 157–60, 353, 358, 364, 367, 372–73, 473, 516, 529, 540, 563, 568, 585, **5.278**, 317, 319, **6.217**, 218, 220, 280–81, 282
- reversible vs. metre, **5.5**
- rollers substituted for knives, **5.17**
- and rotation of the Earth, **3.42**, 48, 55
- seconds, **4.148**, 150, 151, 357–58, 361–62, **6.460**
- sidereal seconds, **6.322**
- simple, **6.278**
- slip of the knife-edge, **4.130–31**
- stiffness of support, **6.460**
- support of, **3.217–19**, 222–24, 229–34
- swinging of reversible, **5.xxxii**, 1, 2, 9, 16
- swing times, **6.279**, 345, 460–61, 484

Pendulum (*continued*)

synchronous simple, 6.284, 293, 322
 time observation, 5.4, 13–14, 21
 time of infinite arc, 6.226–33 *table*
 utility of experiments with, 4.353–54
 and viscosity of the air, 4.98–99, 148–49,
 157–59
 and wearing down of the knife-edges,
 4.125–30
 wear of knives, 6.295
 yard pendulum, 6.282, 285, 459, 477
See also Atmospheric effects; Bessel,
 Friedrich Wilhelm; Chronometer; Clock;
See also Gautier, P. F.; Gravity;
 Instruments; Kater, Henry; Noddy;
 Peirce pendulums; Pendulum
 experiments; Repsold, A. & G.

Pendulum experiments

in Albany and Montreal, 4.xxxii, xxxiii
 at the Allegheny Observatory, 6.280
 in the Arctic, 4.xxxi, lix
 in Baltimore and Cambridge, 4.xxxi, xxxii
 in Berlin, 4.83, 90, 92, 114–16, 127–30,
 132, 133, 134–37, 142–43, 212, 357, 517,
 520, 563
 in Florida, 4.xxxii, xxxiii
 at Fort Conger, 6.216–44, 462, 463–64
 in Geneva, 4.90, 144, 516, 520, 521
 in Georgia and Virginia, 4.xxxiii, xxxv
 in Hoboken, 4.xxxii, xxxiv, lx, 83–84, 86,
 95, 109, 113–16, 127, 129, 132, 133–39,
 141, 143, 212–13, 361, 520, 521–25
 in Ithaca, 6.222
 in Kew, 4.xxxiv, 83, 88, 90, 92, 114–16,
 127–30, 132, 133–37, 142–43, 212, 358
 operation instructions, 6.217, 459–61, 469,
 470, 477–78
 in Paris, 4.xxx, 82–83, 90, 92, 114–16, 127–
 30, 132, 134–37, 141–43, 212, 357, 517
 in Pennsylvania, 4.xxvii–xxviii, xxx, xxxvii
 proposed at Minneapolis, 6.xxxii, 222, 467
 in Washington (Coast Survey Office),
 6.216–17, 244
 in Washington (Coast Survey Office and
 Smithsonian), 4.xxxi, xxxii, xxxiv, xxxv,
 lx
 in Washington (Smithsonian Institution),
 6.218, 222, 240, 241 *table*, 292, 465
See also Gravity determinations; Peirce

pendulums

Penn, William, 5.29
 Pepys, Samuel, 6.liii
 Perception, 1.154–55, 495–96, 2.179, 236, 274
 absence of images in, 2.235–36
 of color, 4.47
 comparative, 8.138
 as conscious or unconscious inference, 8.l,
 235–39, 428
 direct, 3.33, 317–18, 8.137
 external, 8.80
 vs. feeling, 8.103*n*.2
 as hypothesis, 2.180
 and illusion, 2.195–96
 immediate, 2.166–67, 171, 471, 477,
 8.xxxii, 78, 79, 138, 353
 as inference, 2.166–67, 180, 195–98
 inferential, 8.l, 138, 235, 239, 428
 internal, 2.171, 206
 and intuition, 2.196–98
 and knowledge, 5.331
 laws of, 3.254, 351
 mediate, 8.lxxxiii, 138
 neurophysiology of, 4.42–43
 perceptive understanding, 5.281, 287
 psycho-physiology of, 2.198–99
 as reasoning, 8.235
 of red surface, 6.184–85
 of relation, 8.104
 of relations, 5.281, 288
 sensibility of, 5.124–25
 of space, 2.196–98, 3.317–18
 as a stimulus to action, 3.265, 363
 vs. suggestion, 8.236
 synthetic consciousness, 6.214
 of time, 3.317–18, 8.lxxxii–lxxxiii, 80, 138
 of tone, 2.166–67, 179, 197
 touch, 2.197
 unconscious predication, 8.239
 vision, 2.166, 196–97, 235–36, 484–85
See also Color; Feeling; Impression;
 Observation; Physiology; Pressure;
 Psychology; Sensation; Sense; Telepathy
 Percival, Richard, 1.123*n*, 132
 Percolation
 of eternal forms, 8.465
 Perfect, the, 1.62
 nature of, 1.83–84
 Perfection, 1.83, 2.112, 121

- Perfect, the (*continued*)
 a category of the It, **1.530**
 third stage of degree, **1.38**
- Pericles, **5.29**, 34, 36, **8.264**, 443
- Perikles. *See* Triantaphyllis, Perikles
- “The Periodic Law” (sel. 48), **8.lxviii**, lxix–lxx, 649–50
- Permanence, **1.4**
- Permutation
 of antecedents, **8.213**, 421
 in mathematics, **8.xlviii–xlix**, 222, 227
See also Commutation
- Perrin, Raymond S., **5.451**
The Religion of Philosophy (item 39), **5.xxxvi**, 257
- Perry, Ralph Barton, **8.ln.41**, ln.42
- Perry, Thomas Sergeant, **3.xxxi**, xxxii, xxxiv, **4.lix**, **5.xxxvii**
- Pers, John, **1.xv**
- Persecution
 method of, **3.17**, 18–19
See also Church
- Persistence of force. *See* Conservation of energy;
 Force
- Person
 and coordination of feelings through habit, **6.393**
 how it feels as such, **8.408**
 kind of general idea, **8.xc**, 182, 185
 private, **8.196**
 protoplasm of a man’s, **8.408**
 special kind of mind, **6.439**
See also Ego; Self
- Personal identity, **6.62**, **8.lxxxiv**
- Personality, **2.124–25**, **8.154–55**
 and church, **8.183**
 collective, **8.196**, 398
 of community, **8.415**
 as connection of ideas or general idea, **8.lxxxiv**
 corporate, **8.xc**, 183
 double, **6.381**
 and feelings coordinated through matter, **6.393**
 multiple, **8.154**, 398
 its nature present in general ideas, **6.439**
 none in protoplasm, **8.148**
 recognition of another’s, **8.156**
- Personal pronouns, **1.4**
- Personhood, **8.xc**
- Persons
 of the verb, **1.xxviii–xxix**
- Perspective, **8.26**, 26*n.1*, 27, 89–90, 108
 relief-, **8.95**
 representation, **8.lxvii**, 29, 93, 107, 273
 theory of, **8.lxvii**, 92–93, 273
- Perugino, **5.29**, 35
- Pessimism, **8.15**, 18, 364, 382, 385
 and the absolute, **5.251**, 450
 as philosophical outlook, **6.174**
See also Philosophy
- Peter Lombard, **2.277**
- Peters, Christian August Friedrich, **8.108**, 386
- Petersburg problem, **2.102**
- Peter the Great, **5.29**, 34, 36, **8.264**, 268, 278, 279, 639
- Peter the Hermit, **5.29**, 34, 38, **8.264**
- Petitio principii*, **1.219–21**, **5.352**
 Euclid’s, **8.272**, 446
- Petrarch, **5.29**, 34, **8.264**, 278, 279, 281, 639
- Petrie, William Matthew Flinders, **8.466**
 his reasoning method applied to ancient metrology, **8.350–51**
- Petronius, **8.342**, 464
- Petrus Hispanus (Peter of Spain), **1.510n**, **2.32**, 74, 74*n*, 106, 121, 419*n*, **3.3**, **4.487**, 509, **5.460**, **6.418**
Summulae logicales, **2.351**, **4.400**, 507, 586, 592, **5.347**, 355–56, 358
- Petrus Peregrinus
On the Lodestone, **4.xxxiv**, lxvii
- Pettenkopfer, Max, **8.450**
- Phantasms of the Living*
 criticism of, **6.xli–xlii**, 61–62, 74–81, 101–41, 434, 499 (*see also* Testimony)
 Gurney’s defense of, **6.xlii**, 82–100, 142–53
 its history, **6.xxxiv**, 426, 426–27
 method of Peirce’s criticism, **6.xlii**, 109–11, 137
 William James’s review of, **6.xxxiv**, 430
- Phenomena
 determined by law, **8.109**
 of mind, **8.95**, 103, 127, 136, 154
 and natural science, **2.128**
 physical, **8.100**
 psychical and physical, **8.15**, 16
 reduction to unity, **2.199**
 secondary, **8.122**

- Phenomenalism, 2.470–71, 486
 Peirce's own, 5.xli, 280
- Phenomenology, 2.139
- Phenomenon, 1.39, 40, 42, 60
 and noumenon, 5.285
 in science, 5.288
 three elements of, 1.307, 313
See also Form; Matter; Representation
- Phidias, 5.29, 34, 35, 77, 79, 81, 83, 85, 87, 89, 91,
 93, 95–103, 104–6, 8.264
- Philanthropy, 8.205
- Philip II (of Macedon), 5.29, 34, 36, 8.264, 445
- Philip II (of Spain), 8.444
- Phillips, Lawrence Barnett, 8.449
 his *Index of Biographical Reference*, 8.280
- Philodemus, 4.379, 408, 440
 On Methods of Inference, 4.xlvi, 586
- Philopœmen, 8.277
- Philosophical Review*, 8.lxxxii, lxxxiii.101,
 lxxxviii.107
- Philosophical Society of Washington, 2.xxxv,
 3.xxvii, xxxii, 385
- Philosophical Transactions of the Royal Society of
 London*, 3.384
- Philosophy, 2.112, 482, 4.489, 544, 8.17, 465
 282 systems of, 6.408, 505
 approximation of, 6.205
 architectonic, 5.xxxvi
 architectonic vision of, 6.li, 168–69
 basic distinction of, 1.62
 beginner's questions in, 8.33
 British, 2.302–3, 307, 310–11, 463–64, 475,
 487
 Cartesian, 5.329
 of chances, 2.98
 in classification of sciences, 8.275, 447
 and conciliation of science with religion,
 8.34
 condition of its endurance, 8.15
 cosmogonic, 8.110
 development of reasoning in, 5.344
 its development through practice, 8.194
 dialectics, 4.508
 its distinctions going to the essence of
 things, 6.170
 Eleatic, 5.392
 elliptic vs. parabolic vs. hyperbolic, 6.392–
 93, 499
 Epicurean, 5.408
 Epicurean vs. pessimist vs. evolutionist,
 6.174, 499
 esoteric, 5.417
 ethics of its profession, 8.lvii, lviii, lxxxv,
 245–47
 evolutionary, 8.xcii, 155, 185
 evolutionist, 4.lxviii–lxx, 547–48
 as explaining the universe, 8.19, 106, 107
 framing of its theories, 8.23, 85, 99, 110
 French, 2.137
 German, 2.132, 133, 136, 137, 175, 3.6
 of grammar, 2.321
 greed-, 8.188, 191
 Herbartian, 8.95
 high, 8.42
 history of, 2.310, 463, 487
 hyperbolic, 8.lxviii (*see also* Evolutionism)
 idealism, 4.477, 547
 inconsistency of English -, 6.397
 and the intelligibility of nature, 6.392, 456
 internal anacastic development of, 8.200,
 202
 of law, 3.xxxiii–xxxiv, xxxv
 and logic, 8.17
 vs. logic, 8.23
 of love, 8.184–86
 materialism, 4.547, 551
 mathematical, 8.447
 mechanical, 6.63–64, 172
 medieval, 2.276–78, 314–15
 metaphysics, 4.xli
 moral, 5.230–33
 mysticism, 3.253, 321, 351
 natural, 3.164, 6.257
 vs. natural science, 2.212–13
 necessitarianism, 3.41
 new, 8.xxxv, 19
 Newtonian, 6.450, 451
 nominalism, 4.479
 nonpartisan, 8.lxxxv
 one-idea'd systems of, 8.84, 98
 ontology, 3.275, 374, 4.7, 552
 pantheistic and sensational, 1.199
 Peirce's return to speculative, 5.xxxiv,
 xxxvi, xliv
 of physics, 6.253
 in plan for dictionary, 8.293
 pneumatic, 6.439
 its postulate, 8.19, 23, 95, 366, 383

Philosophy (*continued*)

pre-Socratic, 5.xl, 295–96
 presocratic, xlix-1, 6.181, 203, 439, 444–46, 453–54
 problems for, 8.90
 prolegomena of, 8.87
 prominence of threefold divisions in, 6.179
 realism, 4.479
 and reality of relations, 5.281
 of religion, 5.230, 260, 285–86, 8.155
 requiring thorough-going evolutionism, 8.102
 scholastic, 3.3, 242, 272, 339, 371
 schools of, 1.456–57
 and science, 1.9, 5.289
 scientific, 5.446
 its scientific spirit, 8.lxxxv
 as search for unitary conception, 8.43
 sensationalism, 3.2, 52
 seven steps in the logical critic of a philosophic system, 6.408
 its skeleton key, 8.21–22
 skepticism, 3.258–59, 356–57, 4.552
 social, 3.xxxv, 8.17
 sophism of Achilles and tortoise, 4.486
 speculative, 2.153–54
 starting with nothing, 6.406
 study of, 8.135
 superscientific, 8.33, 369
 synechistic, 6.lxxxix, 440, 8.lxxxiv, 156, 157, 392 (*see also* Synechism)
 system of, 8.lxxxix, 168*n*.5
 its theological kind, 6.180
 and theology, 3.272, 371
 theory of cognition, 4.401
 three kinds of, 8.lxxviii, 22, 365–66
 true, 4.lxxvii
 elliptic, 6.392–93, 499 (*see also* Epicureanism)
 parabolic (*see* Pessimism)
See also Conceptualism; Foundationalism; Idealism; Logic; Materialism; Mechanism, mechanical philosophy; Metaphysics; Nominalism; Realism; Scepticism; Scottish school of common sense; System; Thought

Phoenix, John, 5.233, 447–48, 6.204, 454

Photograph
 instantaneous, 6.246

its mediating role, 6.179

Photography

as record of transfer, 8.53
 from two perspectives, 8.89, 568

Photometric Researches, 8.425–26, 439

Photometric Researches (P 118), 5.xxiii

Physics, 4.379, 544

calculus of probability as its method, 6.254
 vs. chemistry, 8.448

in classification of sciences, 8.275, 448

condition for its progress, 6.lxxxiii

descriptive vs. theoretical science, 6.246–47

developed from instinctive beliefs, 6.205

and electricity, 4.152–53, 155, 380

general formula of, 6.248

hopelessness of its method of speculation, 6.252

kinetical theory of gases, 4.105, 380, 489

law of, 5.331

laws, 4.547, 548, 553–54

laws of, 8.43, 391

and magnetism, 4.79–80

material point, 3.205, 207

mathematical, 8.447

measurement in, 4.241

mechanics, 4.450, 468, 546–47

and metaphysics, 8.233

method of research, 6.248

modern, 6.172

modern, 8.190, 269

molecular, 8.17, 21, 100, 111, 159–63, 165–73, 190, 365

molecular theory, 6.248

optics, 4.48

phenomenal reality of its object, 5.288

philosophy of, 6.253

physical constants, 3.165–66

physical explanation of protoplasm, 6.193, 195–98

physical vs. psychical, 8.lxxxii, 43, 97, 105, 158, 165, 180, 595

in plan for dictionary, 8.293

probability applied to, 3.244, 340–41

probable reasoning as its logic, 6.lxxxiii

theoretical, 3.336

theory of gases, 3.244, 334–35, 340

theory of heat, 3.2, 335

its treatment of error, 5.416

Physics (*continued*)

triads in, 5.303, 6.1, 166, 176, 203–10
See also Dynamics; Ether; Force; Gravity;
 Law, physical; Mechanics; Molecular
 theory
 Physiology, 8.447, 448, 594
 of attention, 8.14
 categories and nerve functions, 5.247
 characteristic of physiological principle,
 6.449
 of consciousness, 5.225, 247
 of feeling, 8.105
 of habit formation, 3.337–38
 human, 8.294
 and intensity of sensation, 5.122–23
 and logic, 4.xlvi, 476
 muscular, 8.14, 16
 of nervous system, 6.188–98, 448, 449
 as nutriment for logic, 5.225
 and psychology, 4.40, 380, 476, 555
 of sensation, 4.40, 48
 triad in, 6.xlviii, l, 166, 176, 188–98, 448
 of volition, 8.16
 See also Perception; Psychology; Sensation;
 Unterschiedsschwelle
 Pi, 8.142, 588
 Piazzzi, Giuseppe, 3.389
 Piccinino, Niccolò, 8.278
 Pickering, Edward Charles, 4.xxxiii, xxxvi, 6.435,
 8.lix, 426, 492
 Picture
 dependent on convention, 5.380
 as icon, 5.380
 in projective geometry, 8.26, 27, 89, 90, 92,
 106, 273
 See also Image
 Pierpont, James
 “Note on C. S. Peirce’s Paper,” 4.562
 Pinchot, Gifford, 6.liv
 Pinchot, James W., 6.xlv, lxxi, lxxiv
 Grey Towers, 6.xxxix
 Pinchot, Mary Eno, 6.xxxviii, liii
 Pindar, 5.29, 34, 35, 8.264
 Piron, Alexis, 8.280
 Pisano, Nicola, 5.29, 430
 Pitt, William, 5.29, 34, 36, 8.264, 268, 280, 639
 Pius IX (Pius Nonus), 3.26, 251
 Pizarro, Francisco, 5.29
 Place, absolute, 2.112

“A Plain Moral Question,” 8.li, 626

Plane

 in geometry, 6.357–59, 488, 8.25, 26, 58,
 61, 62, 106
 at infinity, 8.93
 natural, 8.26–27, 92
 in non-Euclidean geometry, 8.93–94, 273
 not a plain, 8.92*n*.3
 plain as, 8.273
 plane curves, 6.372–76, 491–92
 of projection, 8.92, 93
 its segmentation in ordinal geometry,
 6.264
 unbounded, 8.lxvii, 273
 Plantamour, Emile, 3.xxv, xxvi, 4.xxviii, 81, 144,
 520, 560, 563, 6.486
 pendulum experiments of, 4.132, 518–19
 “Recherches expérimentales,” 4.518, 564,
 593
 Plasticity
 of materials, 8.178, 407
 of a solid, 8.403–4
 Plato, 1.93, 2.134, 138, 142, 437, 4.508, 5.xlii, 29,
 34, 37, 232, 298, 417, 449, 6.1, 203, 445, 8.88,
 264, 271, 277, 278, 443
 and agreeability to reason, 3.252, 350
 definition of soul, 1.61, 145, 149
 dialectic of, 2.135, 142–43
 divisions of the mind in, 6.183, 447
 his idealism, 6.255, 258
 on syllogisms, 1.424
 on thought, 2.172
 Phaedrus, 1.61*n*
 Sophist, 2.140
 The Republic, 5.222
 Timaeus, 4.560
 Platonism, 2.437, 464, 472, 480–81, 490
 Plattner, Karl Friedrich, 2.286
 Playfair, John
 on the parallel postulate, 8.272, 446–47
 Playfair, Lyon, 4.435–38, 436*n*
 “Note on the Numerical Relations,” 4.589
 Play-impulse, 1.11
 Pleasure, 2.112, 271
 Hobbes’ principle of, 3.41
 Pleasure and pain, 8.95
 as secondary sensations, 6.183–84
 its sense a constituent of cognition, 6.185
 Plimpton, George A., 8.548, 658

- Pliny the Elder, **8.443**
- Plotinus, **2.437, 8.135, 392**
- Ploucquet, Gottfried, **8.379**
notation of, **1.224–25**
- Plural
as form of number, **5.301, 306, 456**
as logical character or fact, **5.243–44**
- Plurality, **1.4**
a category of the It, **1.530**
definite in relations, **6.363**
an infinite quality, **1.39, 48**
of a set, **6.360**
vs. totality, **5.236n**
- Plus sign, **8.30, 55, 63, 64, 71, 255**
- Pneumatology, **6.167, 439**
- Podmore, Frank, **6.xxxiv, xli, 61, 74, 80, 81, 91, 112, 426, 426–27**
- Poe, Edgar Allen, **5.35**
- Poetry
allusions to, **8.191, 290, 411, 413, 418, 453, 454**
Greek poem, **8.321, 460–61**
Sand Key poems, **8.xiii–xiv**
vs. science, **6.187**
- Poggendorff, Johann Christian, **3.180, 6.494**
- Poinsot, Louis, **5.397**
- Point
absolute, **8.107**
Boscovichian, **8.lxx, lxxn.85, 285, 404, 451, 650**
describing a line, **8.lxxv, 57, 142**
dimensionless vs. thick, **8.lxxxiii**
end-point, **8.145**
in geometry, **8.27, 57, 57–62, 106**
imaginary, coincident, distinct real, **8.107**
immediate neighborhood of, **8.146**
at infinity, **8.93, 106–7**
line viewed endwise, **8.100**
lying in pairs, **8.60**
natural, **8.92**
not existing in continuous line, **8.394**
not part but limit according to Kant, **8.394**
plane coordinates of, **8.90**
relationally compared with lines, **8.61**
in a series, **8.143, 144, 145, 395**
its theory like that of lines, **8.xliv, 62**
- Points
absolute, **6.173–74**
in geometry, **6.357–59, 372–73, 487–88**
imaginary, coincident, distinct real, **6.173–74, 491**
or monads, **6.268**
starting and stopping—in philosophy, **6.392, 393**
- Poisson, Simeon Denis, **3.379**
- Polarity
consciousness of, **6.185, 186, 189, 190**
See also Sense, polar
- Political economy, **2.xxxv–xxxvi, 459, 8.xcii, 21, 187n.1, 365, 414, 447**
axiom of, **3.176**
and biology, **3.xxxvi**
mathematics applied to, **3.xxxiv, 109–10**
its motto, **8.186**
quantities of, **3.173–76**
- Politics, **6.497**
in classification of sciences, **8.275**
of the “mugwump,” **8.151–52, 397**
in plan for dictionary, **8.294**
platform vs. creed, **8.241**
- Pollard, Stephen, **6.452**
- Pollock, Frederick, **3.xxxiii**
- Polo, Marco, **5.29**
- Polycarp, **5.29**
- Pomey, François-Antoine, **1.133**
- Pomponazzi, Pietro, **8.278**
- Pond, John, **2.457**
- Poniatowski, Józef Antoni, **5.29**
- Poole, Henry, **8.312, 460**
- Pope, Alexander, **1.20–21, 127, 5.29, 402, 418, 8.280, 463**
- Popular Science Monthly*, **3.xxxv, 4.7, 5.xxxv, 230**
- Porphyry, **2.70–71, 70n, 313, 316, 4.483**
tree of, **4.8, 560**
Isagoge, **2.70, 4.560**
- Porta, Giambattista della, **5.29**
- Porter, Noah
on induction, **2.279–80**
on realism and nominalism, **2.276, 278**
and Scottish school, **2.278–79**
his terminology, **2.274–75**
The Human Intellect, **2.273n**
- Port-Royal Logic, **2.70, 70n, 71**
on clear and distinct, **2.71**
on extension and comprehension, **2.70–72, 74–75, 78, 328**
- The Port-Royal Logic, **4.400, 483, 586**

Position

definition of, 6.471
See also Rule of false

Positive name, 8.87

Positivism, 2.45*n*, 122, 130, 148, 485, 489, 8.43

of Fiske, 5.260

James's, 8.233

on knowledge, 2.125, 127, 129

logical doctrine of, 2.128–30

on metaphysics, 2.45*n*, 127–28

as metaphysics, 2.127–28

method of, 2.303

on observation, 2.128–30

and religion, 2.122–23, 125–28

and science, 2.125, 127–28

Positivity

a category of the It, 1.530

second stage of degree, 1.38

Possibility, 1.18, 47, 53

boundless ocean of, 6.250

can-be, 8.399

a category of the It, 1.530

class of, 5.336

degree of modality, 1.38

equally probable possibilities, 3.298–300

as a fiction, 1.312

field of, 5.361, 369, 371, 461

grounds of, 1.183, 186, 289

and hypothetical proposition, 5.166, 169–70, 336, 338

kinds of, 5.330–31

limitation of, 8.147

logical, 4.450, 5.226, 331–34, 336

logical and material impossibility, 5.333

nominalistic conception of, 6.425

physical, 4.451, 5.331

posse, 8.399

possible case, 4.165

possible fact, 3.278

possible states of the universe, 4.442–43, 493–94, 570–71

possible states of things, 4.491–92, 494–95, 570

a posteriori, 2.107

a priori, 2.107

range of, 5.170, 331

reality of, 5.xlv, 6.lxxx

according to Royce, 5.226

sheet of, 5.331–32

as a term of second intention, 4.182

that whose falsity is not known, 6.356, 425

universe of, 4.219, 5.166, 330, 333, 334, 336, 338, 341, 436

vague, 8.lxxxiii, 149

See also Hypothesis; Necessity; Probability

Possible

vs. actual, 5.331, 372–73

in Boolean algebra, 6.50

definition of, 5.169–70, 330, 372, 6.50, 425

in *modus ponens*, 5.331

part of logical triad, 5.243

universe of possible objects, 6.66, 68

Possible-worlds semantics, 6.424

Posteriority

character of dual relation, 6.366

Posterity

working for, 8.lxvi

Postulate

vs. axiom, 8.88

criticism of belief in, 8.liv

defined, 8.114–15, 388

Euclid's fifth, 8.272, 354, 446

of geometry, 1.444, 8.88, 89

metaphysical, 8.89

not involved in induction, 8.114, 115

of philosophy, 8.19, 23, 95, 366, 383

principle of necessity as, 8.116

proposition hoped to be true, 8.113

of uniformity, 8.242–43

Potency

kinetic, 5.xxxii, 275–76, 275*n*

Potentiality

absolute, 5.xxxvii

and firstness, 6.181

Potter, Vincent G., 8.393

Pound, 6.377, 493

Pourtalès, Louis François de, 3.xxii, xxiii

Powell, John Wesley, 4.xxxii, 350, 351, 5.xxx, 6.lxxvi

Power

and energy, 5.402

entitative, 5.404

implying limitation, 6.214

of individuals, 8.203–4, 205

intellectual, 8.xxxix, 97, 104 (*see also* Intelligence)

and matter, 5.404

- Power (*continued*)
 raising of Boolean part to, 5.212–13, 214, 220
See also Compulsion; Force
- Power, absolute, 2.112
- Practical
 absolutely, 2.113
 function, 2.483
- Practicality
 of Locke's thought, 8.41
- Practice
 belief practically different from doubt, 3.247, 344
 and distinctions of meaning, 3.265, 275, 364, 374
 and logic, 4.400, 476, 508, 509
 practical effects of a concept, 3.xxix, 266, 365
 practical logic, 3.28, 255, 330, 353
 practical results of a proposition, 3.108
 and theory, 4.154, 379, 509, 5.327
- Pragmaticism
 realistic, 5.xxxv
- Pragmatic maxim
 and diagrammatization, 8.24, 366
See also Hope, rule of
- Pragmatism, 1.xxii, xxxii, 2.xxxvi, 4.572
 and Darwin, 3.xxxvi
 and definition of belief, 3.xxxi
 and the idea of reality, 3.xxx
 legal, 3.xxxiii–xxxiv
 logical, 3.xxxiv
 its maxim applied to questions, 5.227
 maxim or principle of, 3.xxix, xxxii
 nominalistic, 5.xxxv
 origins of, 3.xxix–xxxii
 and theory of evolution, 3.xxiii
- Prantl, Carl, 2.73, 105, 112, 490, 8.200, 379, 416
 historian of logic, 1.360
Geschichte der Logik im Abendlande, 2.71n, 73n, 312
- Pratt, John Henry, 4.531
Treatise on Attractions, 4.594
- Pratt & Whitney, 5.150
- Praxiteles, 5.29, 34, 35, 8.264, 443
- Prayer, 8.lxxiv
 Prayer, efficacy of, 1.63
 Prayer test, 8.348, 409–10, 465
 Elijah's, 8.465
- Precedence
 a category of the It, 1.530
- Precision, 1.327, 328, 330, 335, 353–55, 473–75, 518–19
 absolute, 8.88
See also Prescinding; Prescision, Prescision
- Predicable, accidental, 2.121
- Predicate, 1.144–45, 483, 508
 and accident, 5.235, 445
 as affected idea, 8.150
 affirmed universally, 3.316
 of assertion, 2.104
 breadth of, 3.89
 of the case, 1.370
 of categorical proposition, 5.338
 and connotation, 3.89
 as consequent, 5.360
 and definition, 3.100–101
 in De Morgan's logic, 5.354
 and denotation, 3.89, 96–97
 denoted quality, 1.474
dictum secundum quid, 5.351–52
dictum simpliciter, 5.351
 difference from subject, 1.288
 distinct, 1.188
 and existence, 3.86
 expresses ground, 1.481
 general, 2.277
 hypothetical, 1.471–72, 517–18
 incarnation and carnification of, 1.148
 and induction, 1.423
 likeness-term, 1.485
 mark as, 5.112, 337–38
 negative, 8.87
 of non-existent individual, 5.337
 object of information, 1.278
 in perceptual inference, 8.235
 pleasure and pain as, 5.246
 predicability, 3.37, 86, 99–102
 privative, 8.87
 of a proposition, 1.505, 509, 518, 3.85, 87, 90, 96–97, 99
 in proposition, 8.86
 quantification of, 5.352–53, 460, 8.30
 real, 1.92
 related to subject, 5.235, 445
 of representation, 2.2, 26, 50, 82, 446
 of the rule, 1.506

- Predicate (*continued*)
 suggested by subject, 8.31
 true, 2.296
 and truth, 3.99, 102
 universal, 2.157*n*, 389
See also Attribute; Copula; Name;
 Proposition; Quantified predicate;
 Subject
- Predication
 unconscious, 8.239
- Prediction
 success of scientific, 5.xxvii, 136–38
 and testing hypotheses, 3.331
 touchstone of scientific theory, 6.lxxvii,
 399–400
 of undiscoverability, 6.247
- Premise(s), Premiss(es), 1.176, 412, 415, 507,
 514–15, 519
 absurd, 5.336
 antecedents of, 1.493
 of an argument, 2.23–26, 432
 in contraposition, 5.339
 deductive or hypothetical, 1.441–42
 in dilemma, 5.357
 in enthymeme, 5.404
 fact leading to another belief, 8.251
 in illative relation, 5.335
 major, 1.152
 minor and major, 5.338, 347
 in *modus ponens*, 5.334, 8.237
 multiplication of, 5.198, 384, 443
 in *petitio principii*, 5.352
 probability of, 1.8
 of probable inference, 3.286, 287–88
 quality of, 1.509
 of the reduction, 1.511–12
 related to conclusion, 5.107, 181–82, 458,
 8.31, 71–72, 201, 251, 252
 as a representation of conclusion, 2.58
 as representing a fact, 5.245
 in simple consequence, 5.328–29, 334
 in simple conversion, 5.348
 substituend, 3.195–97
 substituent, 3.195–96
 suppressed, 2.24*n*–25*n*
 of syllogism, 3.195–97, 324, 327, 329
 in syllogism, 5.242
 in syllogism of transposed quantity, 5.188–
 89
 of syllogisms, 1.383, 434
 in syllogistic diagram, 5.165
 transposed, 1.511–12
 true, 3.244, 245, 341, 342
 ultimate, 1.489, 2.175–77
 usual meaning of, 1.411
 of valid inference, 3.244, 245, 341, 342
 and validity of inference, 5.333, 336
See also Antecedent; Conclusion; Inference
- Presbyterianism, 6.497
- Prescience, absolute, 2.112
- Prescindible, 1.328
- Prescinding
 of ground, 1.335
 of representational elements, 1.313, 327,
 328, 335
 of thought from intuition, 1.306, 311
See also Precision; Prescision, Prescission
- Prescision, Prescission, 5.448
 etymology of, 2.94
 as kind of abstraction, 5.238
 as mental separation, 2.50–51
See also Abstraction, Precision
- Presence
 in firstness, 6.170, 171
- Present
 and causation, 8.15–16
 consciousness of, 6.458
 containing no time, 8.80
 as feeling, 8.95–96, 103
 vs. future, 8.lxxxiii, 149
 half past, half future, 8.146
 immediate, 6.214
 instant, 8.396
 made up of feelings, 6.184
 to the mind, 8.xxxii, 78, 80, 146
 modification of past idea, 8.397
 of past idea, 8.137, 149
 perception of, 8.xxxii, 78–79, 80, 392
- Presentation
 of externality, 8.353
- Present in general, 1.352, 473, 474, 517, 2.50
See also Manifold; Substance; What is
- Presocratic philosophy, xlix-1, 6.181, 203, 439,
 444–46, 453–54
- Pressure
 of gases, 8.100, 167, 405–6
 relative to volume, 8.170
 sensation of, 8.156

- Pressure (*continued*)
 sense of, 5.xxv, 124, 126–33
 in a solid or a liquid, 8.162
 upon system of particles, 8.169
See also Gravity determinations; Pendulum
- Preston, Erasmus Darwin, 4.xxxiii, 276, 578,
 6.286, 479, 8.xli
- Presumptions, 1.152
- Preyer, Wilhelm T., 6.426
- Price
 and cost, 3.173
 and demand, 3.109–10, 173–74, 176
See also Political economy
- Price, Henry Habberley, 6.426
- Priestley, Joseph, 1.243, 2.485, 4.li, 5.29, 34, 35,
 37, 8.264
- Prigogine, Ilya, 8.xcv, xcvi.118
- Priman, 8.399–400
- Principle
 absolute, 2.112
 distinguished from rule, 8.67
 Epicurus on, 1.475
 first, 6.396, 406
 first general, 3.23
 foundational, 6.398
 guiding principle of inference, 3.245, 342
 guiding principle of reasoning, 3.245–46,
 342–43
 of inference, 1.280–82
 leading, 5.329
 of pragmatism, 3.xxix, xxxii
 proved by inference, 1.290
 regulative, 6.lxxxiii, 206, 8.33
 scientific primitive, 1.163
 ultimate, 6.205
 universal, 8.113
See also Algebra; First principles; Ultimates
- “Principles of Philosophy,” 8.xliii
- Prior, Arthur N., 5.xxvi
 “The Algebra of the Copula,” 4.xlvii, 572
- Priority
 character of dual relation, 6.366
- Prison
 odiousness of, 8.342, 343, 464
- Privacy
 of mind, 3.57
 of observation, 3.42–43, 49, 55, 60
 private inspiration, 3.253, 351
See also Community; Individual; Society
- “Private Thoughts principally on the conduct of
 life” (MS 55), 5.xxiii
- Privative name, 8.87
- Probabilities, 8.liv, 111, 293, 432, 447
 branch of logic of science, 6.254, 255
 Laplace’s indirect 353, 8.468
 vs. mathematics, 6.255
 million players example, 6.199–200, 451–
 52, 453
 moral wealth in, 6.200–201
 in positive sciences, 6.254
 reasoning depending upon, 8.439
 of variation, 6.201
See also Chances; Statistics
- Probabilities, theory of
 its significance in research on telepathy,
 6.xli, 74, 80–81, 103–4, 107–10, 435
- Probability, 1.9, 70–71, 225, 395–98, 401–4, 441,
 2.2, 19, 44, 45 n –46 n , 99, 187, 3.xxix, 4.lxix,
 6.lxxxiii, 8.xxxi, 16, 88, 439
 application of Boole’s calculus to, 2.12, 18–
 19, 22
 applied to physics, 3.244, 340–41
 of argument, 3.280–81, 290, 294–95
 as average number, 3.116–17, 285–89
 axioms of, 3.127
 and balancing reasons, 3.294, 296
 Bayes’s theorem, 5.436
 and belief, 3.291, 293, 294–96
 calculation of, 3.286–89, 290–91
 vs. chance, 3.293
 and chance, 4.380, 382, 547, 548–50, 551–
 52
 of coincidental hallucination in Gurney’s
 census, 6.108–9, 140
 conceptualistic theory of, 2.xxvi, 98–100,
 3.291–92, 294–96, 298, 301, 305
 of consequence, 3.290–91, 293
 curve, 5.123, 134, 134 n
 and deduction, 3.328
 definition of, 6.255, 472
 degree of, 3.5, 279–81, 291, 293, 294, 296
 as degree of credence, 2.98–102
 of die turning up a face, 6.103
 distribution of, 2.102
 equality of, 2.21
 equally probable alternatives, 3.298–300
 equally probable possibilities, 3.298–300
 of event, 3.118, 281, 286–89, 291–92, 297

Probability (*continued*)

of an event, 4.443, 589
of events, 2.19, 22–23, 98, 100–101
and evidence, 1.398, 400–401
and evolution, 5.260–61
example of quantity with double absolute, 8.107
excessive, 6.xli, 74, 103–4, 142–43, 430
of fact, 3.278, 295
of facts, 2.22, 100
and gambling, 3.282–83
and habit formation, 4.553
of hypothesis, 3.5–6, 330–31
independent, 3.290–91
indeterminate, 3.296–97
of induction, 3.302–3, 315–16
and induction, 4.427–33, 443, 5.226–27
of inference, 3.279–82, 286–88, 298, 301–3, 305, 329
inverse, 4.441–42
of judgment, 3.295
of knowledge, 3.100, 5.249
and knowledge, 6.103
and likelihood, 1.398
Locke on, 3.279–80
and the long run, 4.412, 427, 428, 431, 6.119
materialistic theory of, 3.291–92
maxim of conduct based on, 4.410–11
measurement of, 5.168
method of least squares, 4.80–81, 488
in natural science, 2.187–88
nominalistic theory of, 2.xxvi, 98–100, 102
not caring for ideal world, 6.255
numerical, 3.278
probable deduction, 4.409, 413–14, 417–18, 427, 430
probable error, 3.121–22, 123, 123*n*, 136–37, 185, 213–14, 236–37, 407, 411, 4.72, 76, 77, 80–81, 355, 356, 368, 427, 429, 438, 565
probable inference, 4.1, 245, 382, 408–13, 414–15, 421, 427, 434, 451, 588, 5.243, 334
probable reasoning, 4.245, 412, 420–21
as proportion of arguments, 3.290
as proportion of occurrences, 3.291
of a proposition, 5.241
questions of, 1.235

of rare event smaller than that of trick, 6.lxxix, 390
realistic theory of, 2.xxvi, 98
and reasoning, 3.289, 304
as relative frequency, 2.xxiv, 22, 267, 3.292, 297, 301, 313–14
as relative number, 3.116–19, 285–89
of repetition of similar trials, 4.145–47
and sampling, 4.427–33, 434, 438
scale of, 3.297
of scientific conclusions, 8.113
statistical deduction, 4.414, 416–17, 418, 424–26, 426*n*, 434
statistical law, 4.551–52
statistical syllogism, 4.423–24
of telepathic hypothesis, 6.110–11, 113
theory of, 1.162, 189, 395, 3.116, 278, 4.lv, 487–88
See also Argument; Assurance; Boole, George; Chance; Credence; Credibility; Error, probable; Frequency; Least squares; Locke, John; Mean; Mill, John Stuart; Possibility; Statistics; Syllogism

Probable

between affirmative and negative, 6.166

Problem, absolute, 2.112

“A problem of trees,” 8.613, 620

Procedures

ground of, 1.183

Proceedings of the American Academy of Arts and Sciences, 3.xxvii, 336*n*, 4.8, 321*n*, 5.163*n*, 238*n*

Process, 8.22

of association, 8.15, 235–36

consciousness of, 6.186, 190, 214

of evolution of universe, 8.103, 386–87

explanation of, 8.236

inductive vs. hypothetical, 8.398

of inference, 8.71, 236

logical, 8.21

as mediating third, 8.109, 110

of nature and thought, 8.17, 19, 23, 24

of perception, 8.235

physical, 8.387

physical vs. psychical, 8.lxxxii

of reason, 8.24

reversible vs. irreversible, 8.lxxxii, 432, 433

(*see also* Reversibility)

as third, 6.xlix, 441

- Process (*continued*)
 as third in biology, **8.110**
 and thirdness, **5.301, 306**
 universe as, **6.xlix**
- Proclus, **8.446**
- Proctor, Richard Anthony, **3.1, 2**
 Star Atlas, **3.1**
- Product
 of geometric segments, **6.263**
 logical, **2.69, 8.255**
 in logical equation, **8.75, 76**
 meaning of, **8.66**
See also Multiplication
- Progress, **8.189, 191, 195, 197**
- Progression
 geometrical, **8.11, 51, 52**
- Projaculation, **8.413**
 energetic, **8.192**
- Projection
 geometrical, **8.26, 89, 92**
- Promptuarium
 of analytical geometry, **8.57**
- “Promptuarium of Analytical Geometry” (sel. 16), **8.xliv**
- Pronoun
 deficiency of, **8.xxx, 63, 69, 486**
 definition of, **6.20, 419**
 and noun, **1.xxviii**
 in pair of relatives, **6.175**
- Pronunciation
 of Greek names, **8.455, 456, 457, 459**
- Proof, **2.48, 108, 111, 247**
 its absence in *Phantasms*, **6.108**
 in logical algebra, **5.363**
 as logical exercise, **8.67, 73, 75, 255–57**
 and mathematical reasoning, **6.38**
 regular method in arithmetic, **8.55**
solvet ambulando, **6.68, 429**
 its strength in establishing a fact, **6.76**
 of three rules of algebra, **8.65–66, 73**
 ways of proving a theorem, **8.55**
- “Proof of... Arithmetic” (item 36), **4.li**
- Proportion, **8.48, 49**
- Proposition, **1.154–55, 176, 199, 514, 517, 521, 2.108, 112, 183, 296, 320, 425, 4.23, 218, 265, 402**
 172–73, **4.177, 217, 346, 421, 453, 495**
 absurd, **5.336–37**
 accidental, **1.348**
 active and passive, **1.384**
 affirmative, **1.230, 301, 482–83, 505, 2.28, 44, 431, 4.171, 345–46, 460**
 ambiguity of, **5.240–41**
 analysis of its meaning, **8.56**
 analytic, **2.183, 184**
 analytic or connotative, **1.273–74, 277–79, 284**
 antecedent of, **4.249, 254**
 Aristotle on, **1.418**
 asserted, **8.67**
 asserted by being written down, **8.64, 210, 560**
 asserting existence, **5.112, 354**
 attributive, **2.186–87**
 and belief, **3.20, 21, 50**
 in Boolean algebra, **5.381–82, 8.xxx, 64, 65–66, 71, 72–74, 76–77**
 Boolean and quantifying parts of, **5.178**
 breadth and depth of, **4.345**
 canonical, **3.90**
 categorical, **3.96–97, 4.170, 221, 247–49, 254, 421, 483, 5.345–46, 361, 406, 445**
 categorical as variety of hypothetical, **5.338**
 in *Century Dictionary*, **5.473**
 clause as compound of, **8.210**
 complex vs. compound, **6.272**
 comprehension and extension of, **4.345–46, 451**
 comprehension of, **1.481–82**
 conditional, **8.65, 66**
 consequent of, **4.249, 254**
 constituent part of, **5.374–78**
 content of, **2.183, 185**
 contingent, **2.185–86**
 contraposition of, **1.507, 509**
 copula of, **1.352, 518, 3.85, 96–98**
 and correlate, **1.478**
 defining, **2.85–86**
 De Morgan on, **4.xlix, 172–73, 178, 217, 346, 421, 453, 495**
 in De Morgan’s syllogism, **1.387**
 in De Morgan’s syllogistic, **5.353–54**
 denial of, **5.384**
 distinctions of, **1.320–21, 438**
 divisions of, **1.437, 482, 485, 5.295, 445, 446, 454**
 either true or false, **4.241–42, 245, 264, 490**
 elementary, **5.396**

Proposition (*continued*)

- enunciation as, 5.406
- equal, 5.409
- of equiparance or disquiparance, 1.481, 486
- equivalent, 5.382
- erroneous, 5.224
- essential, 1.348
- evident, 3.259, 357
- existential import of, 2.257–59
- expressed as quantity or equation, 5.166–67
- expressed by signs, 5.111, 164, 245
- extension of, 1.481–82
- extensive or denotative, 1.272, 277–79, 290
- its forms according to number of copulas, 8.212, 217–21, 222
- forms of, 1.344, 4.xlix, 495–97, 569, 584–85
- four forms of categorical, 5.345–46
- fundamental form of, 2.42, 44, 8.30
- general, 2.315, 3.315, 8.237
- general categorical, 5.336, 337, 338
- grammatical theory of, 2.430–11
- Hamilton's reduced, 1.297
- hypothetical, 2.4, 162, 174, 182–83, 208–9, 220, 257–58, 260, 421–24, 3.96–97, 282, 4.170, 243, 247–49, 254, 5.166, 169–70, 330, 332, 333, 336, 337, 338, 439, 445, 458, 6.5, 20, 8.72, 253
- identical, 3.193, 196, 197, 203
- identified with inference, 4.170, 170*n*
- of identity, 8.31
- immediate component of, 5.374–78
- impossible, 5.337
- of inclusion, 8.31
- indubitable, 3.23, 248, 345
- intensive or informative, 1.272–74, 277–79
- and judgment, 3.90, 95
- Kant on, 1.418
- logical, 3.64
 - as logical form, 5.239, 243
 - logically possible, 5.331
 - logical theory of, 2.430–31
 - meaning of, 2.5, 183
 - mental, 2.318, 320
 - multiplication of, 5.192–94, 6.4
 - necessary, 2.185–86
 - negative, 1.483, 505, 508, 2.28, 44, 431, 3.191–94, 4.171, 346, 462
 - none absolutely necessary, 6.406
 - and number of subjects, 5.162
 - order of, 4.260–63, 346, 452
 - particular, 1.483, 505, 508, 2.21, 28, 44, 88, 185, 258, 421–25, 428, 431, 3.192–94, 4.23, 171, 178, 215, 218, 221, 254, 345–47, 451, 452, 462, 477, 483, 6.166, 272, 273, 474
 - practical results of, 3.108
 - predicate of, 3.85, 87, 90, 96–97, 99, 4.174, 178, 179–80, 188–93, 254
 - a priori*, 1.64, 207–8
 - probability of, 2.101
 - process of symbolization in, 1.277
 - product of judgment, 8.86
 - proportional, 3.329
 - in propositional algebra, 8.252
 - pseudoproposition, 5.460, 463
 - quantity of, 6.166
 - vs. question, 3.20
 - and relate, 1.478, 486
 - and representation, 3.64
 - representing a fact, 5.111, 245
 - rules of transformation in streamer notation, 5.374–78
 - rule, case, result, 1.429, 508
 - sinister, medial, dexter, 1.320–21
 - spurious, 4.346, 348, 453, 453*n*, 477
 - statistical, 3.329, 5.236*n*, 241
 - subject of, 3.85, 87, 90, 96–97, 99, 4.174, 178, 179, 188–92, 254
 - subject or predicate of, 1.481, 483, 517–18
 - subsumptive, 2.186–87
 - in syllogism, 5.346, 350
 - of syllogisms, 1.320–21, 377–81, 446, 509
 - and symbol, 1.347, 477
 - as a symbol, 2.57–58
 - synthetic, 2.83
 - three elements of, 8.86
 - transposition of, 1.432, 507, 510
 - true, 3.282
 - truth of, 2.4, 163, 175, 182–83, 263
 - of two dimensions, 5.115
 - in two dimensions, 6.274
 - types of, 5.241
 - as undegenerate third, 5.301
 - unity of, 2.49–52

- Proposition (*continued*)
 universal, **1.419**, 482–83, 505, 508, **2.28**, 44, 174, 185, 208–9, 258, 266, 391, 424, 431, **3.191**, **4.171**, 215, 221, 254, 345–47, 450, 452, 453, 459–60, 477, 483, **6.272**
 universal and particular affirmative and negative, **1.301**, 315, 365, 374
 universe of, **6.474**
 verbal vs. real, **6.273n.1**
See also Denial; Index; Inference; Judgment(s); Premise; Statement; Syllogism; Truth
- Protagoras, **6.445–46**
 on being and thinking, **1.391**
 contrasted with Zeno, **1.390**
- Proteid
 protoplasmic constituent, **6.195**
- Protension
 of a concept, **2.78**
See also Extension
- Protestantism, **2.357**
 Comte's dislike of, **8.268**
 Kepler's, **8.288**
- Protoplasm, **8.18**, 22, 35, 275, 294, 448
 categorial analysis of, **6.176**
 its chemical complexity, **6.195**
 chemical complexity of, **8.173**, 400
 chilling of, **8.176**, 177
 excitation of, **8.148**, 180, 398
 exercising functions of mind, **8.175**
 explanation of its contraction, **6.196**
 glassy substance, **8.401**
 gob of, **8.147**
 life-slime, **8.164**, 173, 174, 175
 of a man's person, **8.408**
 molecular theory of, **8.xlix**, lxxx, lxxxix, 158–64, 165, 173–79, 181, 182, 399, 400, 408, 595
 physical explanation of, **6.196–98**
 its properties, **6.1**, 193–96, 215
 properties of, **8.lxxxix–xc**, 13, 81, 147–48, 158–59, 163, 164, 173–75
 pseudopodia in, **8.174**, 176, 407
 synthetic vs. natural, **8.179**
 its three categorial characters, **8.399–400**
See also Assimilation; Contractility; Disturbance; Fatigue; Feeling; Growth; Habit-taking; Liquid; Mind; Reproduction; Solid; Spreading
- Protuberance, **2.xxxii**, 291–92
- Prout, William, **1.99**
- Prussian Geodetical Institute, **3.xxv**, 217
- Pschlacher, Konrad, **2.419n**
- Psellus, Michael, **2.219n**
 Synopsis, **2.311**
- Pseudo-Aquinas, **2.121**
- Pseudo-conceptions, **1.41**, 43
- Pseudo-evolutionism
 of Spencer, **8.593**
- Pseudo-idea, **1.41–42**
- Pseudo-symbol, **1.288**
- Psychical research, **8.183**, 409
- Psychics
 mathematical, **8.293**, 447
 united with physics in biology, **8.448**
- Psychology, **1.xx**, **2.139**, 177, 207, 475, 485, **8.155**
 of attention, **8.xxx**, 13–16
 on body and soul, **4.544**
 British, **2.304**
 in classification of sciences, **8.275**
 comments on James's *Principles of Psychology*, **8.xlix–li**, ln.41, ln.42, 231–39, 427–29
 of consciousness, **6.386–87**
 empirical, **2.51**, 53, 139
 as an exact science, **3.41**
 examination of its facts, **6.183**
 experimental, **3.xxvii**, **4.xl**, **5.xxv**, **6.xli**
 Fechner's law, **3.125**, 211–12, 294, 388
 fundamental conceptions of, **8.xxxvii**, 95–97, 103–5, 109
 fundamental distinction of, **1.61–63**
 German, **2.xxix–xxx**, 303, **8.235**, 238
 Herbartian, **8.383**
 of intercommunication, **8.156**
 irrelevant to logic, **2.349**
 and logic, **4.1**, 252, 421, **5.xxxvii**, 245–46, 458
 and mathematics, **5.134**
 mathematics applied to, **3.109**
 of mind, **5.245**
 modern, **2.xxx**, 278, **8.17**, 22, 236
 most important experimental research of twentieth century, **6.lxxx**, 394
 necessitarianism, **3.41**
 new, **8.xxx**, **xxxv**, 13
 and observation, **4.400–401**
 and perception of sensations, **5.122–23**

- Psychology (*continued*)
 physiological, 5.122
 and physiology, 4.40, 380, 476, 555
 in plan for dictionary, 8.293
 positive science, 8.95
 probability of its conclusions, 2.187
 psychological aspect of hypothesis, 3.337
 study of, 8.397
 as study of mind, 3.83
 triad in, 6.xlviii, l, 166, 176, 182–87, 448
 trichotomies in, 5.245–47, 298
 of will, 5.232
See also Association; Jastrow, Joseph;
 Monism; Perception; Physiology;
 Science; Sensation; *Unterschiedsschwelle*
- Psychophysical law, 6.201
 Psychophysics, 8.14–15
 Ptolemy, Claudius, 1.291, 3.xxv, 182, 389, 473,
 474, 4.378, 489, 5.33, 8.264, 287
 Ptolemaic system, 8.168*n*.5
The Almagest, 8.250, 439
 Ptolemy I, 8.442
 Public opinion, 8.464
 Public spirit, 8.xl, 40, 187, 203, 401
 Puluji, Jan, 4.105, 564
 Pumpelly, R., 4.xxxx
 Punctuation
 in an ABC-separation, 8.222, 224, 226, 424
 system of, 8.63, 69–70
 Punishment, 8.lxxix*n*.98, 184–85, 187, 671
 death-penalty, 8.lxxviii, 342
 Peirce's six-step method of curing
 criminals, 8.343–44, 465
 as prevention and deterrence, 8.lxxviii,
 341–44, 464, 674
 Purkinje, Jan Evangelista, 8.399
 Purpose
 in agapasm, 8.194
 in agapastic development of thought, 8.203
 in attention, 8.14, 16
 honesty of, 8.291
 predetermined, 8.155
 vague in sheet of assertion, 8.420
See also End
 Purposelessness
 of anancasm, 8.xciv, 199
 Putnam, Henry Ware, 3.xxx
 Putnam, Hilary, 6.437, 8.396
 Puttenham, Richard, 1.123
 Pym, John, 5.29
 Pyrrhus, 5.29
 Pythagoras, 2.134, 4.560, 5.xlii, 29, 34, 37, 77, 79,
 81, 83, 85, 87, 89, 91, 93, 95, 104–6, 298, 417,
 6.183, 440, 447, 8.88, 264, 268, 277, 443
 his life and teaching, 5.49–51
 notion of finite and infinite, 8.391
 notion of odd and even, 8.77*n*.3
 Pythagorean school, 6.203
 Pythagorean hypotenuse, 8.546–47
 Pythagorean theorem, 1.444, 8.24, 47, 91
 Pythagorean triangle, 8.47, 546
- ## Q
- Quadratic equation
 in logical algebra, 8.75
 Quadratic reciprocity
 law of, 6.427–28
 Quale, 1.477–79, 486, 525, 2.55
 pure and indescribable, 6.214
See also Category; Quality
 Qualification, 1.301
 definition of, 6.473
 requalification of letters, 6.263–64, 265,
 266, 267
 respect in which complementary segments
 differ, 6.263
 Qualitative
 dualistic stage of science, 6.172
 “Qualitative Logic” (item 54), 5.xliii
 Quality, 1.xxvi, 31, 54, 335, 349–50, 513, 520–22,
 525, 2.8, 53, 55, 80, 121, 223, 4.485, 486
 abstract, 6.177
 and assertion, 2.104
 and being, 1.518
 category of, 2.xxviii, xxxi, 54–55
 collective, 1.144
 concept of, 3.266–67, 365–66
 conditional existence of, 3.30, 80–81
 connoted by a term, 3.89
 considered as relative, 1.479
 determined, 3.9
 as difference between propositions, 5.346
 of every being, 3.61
 existence of, 2.475, 476
 and feeling, 4.555
 hardness, 3.266–67, 365–66
 and icon, 5.111, 380

Quality (*continued*)

of idea, 3.62–63, 68
 and identity, 5.185
 identity of qualities, 3.92
 imputed, 3.64–66
 inconceivable, 2.5–6
 in inference from resemblance, 5.327
 infinite, 1.48
 influxual dependencies of, 1.39, 530
 Kant's categories of, 5.236*n*
 as logical conception, 5.246–47
 material, 2.227, 228, 230, 3.62–68
 notion of, 1.331
 of object of representation, 3.64–65
 producing sensation, 3.271–72, 370
 as a product of logical reflection, 3.246, 343
 qualitative deduction, 5.381–87, 464
 qualitative logic, 5.323, 372
 qualitative reasoning, 5.361, 371
 qualitative theory, 5.306
 real, 2.475
 real predicates applied to, 1.92
 or reference to a ground, 1.474
 as reference to ground, 2.53–54
 and relation, 4.2
 of representation, 3.62–63, 64–66
 representation of, 1.145
 scales for measurement of, 5.248–49
 second category of, 1.331
 sensible, 2.476
 of sign, 3.65, 76, 77
 of subject in De Morgan's syllogistic, 5.353
 subjective or emotional, 2.238
 of substance, 2.52
 of thought, 2.227
 three degrees of, 1.299
 three kinds of, 1.475–76
 universal, 4.8, 435
 variations of, 1.507
See also Category; Character

Quality of feeling, 8.81

continuity of, 8.147, 149
 first element of an idea, 8.lxxxiii, 148, 149,
 397

Quanta, 6.257, 472

Quantification

complete basis for, 5.440
 discovery of, 5.xx, xlvi
 doctrine of, 4.21

introduction of, 6.lxxx, lxxxii
 notation of, 4.xlviii, 171
 numerical, 5.179*n*
 over "times," 5.436
 of predicate, 5.352–53, 460, 8.30
 quantified predicate, 4.xliv, 21–23
 quantifiers, 4.xli
 theory of, 5.442, 443

Quantification of predicate

Hamilton's doctrine of, 1.295–301

Quantified predicate, theory of, 2.446

Quantifier

calculus procedures, 5.181–85
 development of, 5.xxvii
 indices in quantifying and Boolean parts,
 5.183–84
 and logical product or sum, 5.110, 180
 Mitchell's suggestions, 5.114, 164, 178–80
 notation conventions, 5.109–10, 114, 178–
 80, 8.55
 notation practice, 5.180–81, 214–15
 quantifying vs. Boolean part, 5.178
 standard form of, 5.xxxiii
 and universe of discourse, 5.114
See also Calculus, with Boolean part; Index

Quantitative

stage of science, 6.172

Quantity, 1.54, 349–50, 513

comprehension and extension as, 2.76–77
 continuous, 3.277, 279, 8.90, 117, 390
 continuous, simple, 4.580
 determined by observation, 3.111, 119,
 120–21, 126–27, 375
 as difference between propositions, 5.346
 discrete, 4.300–301, 304, 306, 8.90, 390
 dual vs. plural, 6.166
 of extension and comprehension, 5.360
 extensive, 1.31–33
 external and internal, 2.72
 and form of proposition, 5.167
 "given," 6.251
 of the grounds, 1.528
 imaginary, 8.90–92, 382
 infinite, 1.48
 infinitesimal, 8.139
 is quality, 1.92
 language of, 8.349
 logical, 8.210
 positive, 8.90

Quantity (*continued*)

- primary or elementary, 3.199–201
- probability of its value, 3.118–21
- of propositions, 6.166
- quantitative logic, 5.372
- quantitative science, 3.276–77
- quantitative theory, 5.306
- real, 3.119, 8.90, 91
- reciprocal of, 5.197
- relative of, 4.299–300
- secondary, 3.199–201
- simple, 4.300, 301, 304, 306
- syllogism of transposed, 5.188–89, 189*n*, 442, 444
- syllogism of transposed 130, 8.133, 134, 139, 140, 145, 367–68, 390, 393, 394
- tertiary, 3.200
- and thirdness, 5.306
- three infinite qualities of, 1.39, 530
- truth and falsity as, 5.166
- two-valued system of, 5.382
- variations of, 1.507
- See also* Comprehension; Extension
- Quasi-flow, 6.209
- Quaternions, 2.94, 376, 410–11, 414, 415, 429, 492, 497, 3.238, 239
 - in algebra, 4.xlviii, 230–31, 313, 314, 322, 326, 334–35, 387–88, 467–71, 581, 591
 - biquaternions, 4.231, 385
 - equation, 4.387
 - Hamiltonian, 4.lviii, 385, 467–71, 586, 591
 - real, 4.387
- Queipo, Vicente Vázquez, 8.349, 466
- Question
 - absolutely insoluble, 3.18
 - answerability of, 5.226–28, 447
 - begging the, 1.443–46, 5.352, 8.272, 446
 - and doubt, 3.247, 344
 - forms of, 1.337
 - inductive, 1.498
 - as mathematical monad, 6.270
 - vs. proposition, 3.20
 - solubility of, 6.456
- “Questions on William James’s *Principles of Psychology*,” 8.*ln*.42, 625
- Quetelet, Lambert Adolphe Jacques, 3.278, 4.441, 6.201, 255, 453, 8.190, 412
 - La théorie des probabilités*, 3.298, 4.589
- Quick, John T., 6.xlvi

- Quick, Levi, 8.xlvii
- Quick, Tom, 6.liii
- Quicktown, 6.xlvi, li, lxxi, 8.xxvi
 - eviction of the Quicks, 6.lii, liii
 - farming of, 6.lvi
 - reconstruction of, 6.liv, lxix, lxx
 - renaming of, 6.lvi, lxxii
 - See also* Arisbe; Wanda Farm
- Quincke, Georg H., 4.561
- “A Quincuncial Projection of the Sphere” (item 11), 4.xxix
- Quincy, Josiah, 8.46, 377
- Quine, Willard Van Orman, 4.572, 574, 579
- Quinn’s Halfway House, 6.liii
- Quintilian (Marcus Fabius Quintilianus), 2.119

R

- Rabelais, François, 5.30, 34, 35, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95–103, 104–6, 8.264, 443
 - his life and work, 5.52–53
- Rachel, Mlle, 5.30, 34, 35, 8.264, 279, 639
- Racine, Jean, 5.30, 34, 35, 8.265
- Radius vector, 6.290
- Rainfall
 - and distribution of illiteracy, 3.170–71
 - seasonal, 3.171–72
 - See also* Storm
 - “Rainfall” (P 81), 4.589
- Raleigh, Walter, 5.30, 34, 36, 8.265
- Ramus, Peter, 1.162–63, 3.3, 5.30, 325, 347, 458, 6.440, 8.268
 - Dialecticae libri duo*, 5.355, 358
- Randall, Samuel Jackson, 6.421
- Randomization
 - its use in sensation experiment, 5.xxvi
- Rankine, William John Macquorn, 5.402, 8.167, 190, 204, 402, 412
- Raphael, 1.xxviii, 5.30, 34, 35, 66, 8.265
 - compared to Michelangelo, 1.13–16
 - feminine mind of, 1.13–16
 - ideas of beauty, justice, and truth, 1.16
- Ratio, 8.xxxvi, 24
 - reciprocal, law of, 1.526
- Ratiocination
 - and observation in Kant, 5.258
 - scientific certainty of, 1.162
- Rationalists
 - and the abuse of logic, 1.65

- Rationality
sense of, **8.lxvii**
- Ray
in geometry, **8.26, 27, 29, 106**
See also Line
- Ray, John, **5.30**
- Reaction, **8.180**
called for by three types of inference,
8.lxxxiii, 151–52
coordination of, **8.152**
second state of mind, **8.96, 103–4, 109**
sense of, **8.xc, 96, 104, 105, 109, 181, 353**
uncertainty of, **8.153**
See also Action; Sense
- Read, Carveth, **4.1–2, 559**
Theory of Logic, **4.xxxvii, 1, 559–60**
- The Real, **3.xxix**
vs. fiction, **3.9**
idealistic conception of, **3.8–9**
independent of opinion, **3.8**
independent of thought, **3.9, 271–72, 370–71**
mode of being of, **3.61**
as object of true opinion, **3.273, 372–73**
realistic conception of, **3.8–9**
See also Being; Fiction; Nothing; Reality
- Real
and the final opinion, **2.440, 469**
as the final result of reasoning, **2.239**
vs. imaginary, **8.90, 91, 93, 107**
as independent of thought, **2.467–68**
as object of true proposition, **2.175**
relation of likeness and index, **1.476**
See also Number, real; Reality
- Realism, **3.xxix, 5.xli, 8.137**
abstract vs. concrete, **2.328**
as a conception of reality, **3.8–9, 29–30, 55–56**
vs. conceptualism, **8.352**
and dependent being, **2.153–54**
development of Peirce's, **5.xlv, 6.lxxxii, lxxxiii**
of Duns Scotus, **2.472–73**
logical, **8.157**
and modern science, **2.488–89**
as modified Platonism, **2.490**
moral, **5.231**
and nominalism, **3.272, 371**
vs. nominalism, **8.353**
and nominalism-realism controversy,
2.xxviii, 276–78, 320, 328, 335–36, 464, 467–68, 471, 486–88, 490
its notion of entity, **5.405**
and probability, **2.xxvi, 98**
scholastic, **2.239, 391n, 5.279**
as theory of reality, **2.175, 468, 470, 479, 488, 490**
See also Conceptualism; Materialism; Nominalism; Reality; Universals
- Realists
dispute with nominalists, **1.360**
- Reality, **1.4, 18, 2.112, 127, 163, 175, 180, 252, 270, 3.xxx, 4.7, 9, 5.445**
Abbot's conception of, **5.287**
actual mode, **1.48**
and belief, **4.164–65**
Berkeley's conception of, **2.479–80**
of the categories, **5.xlv**
a category of the It, **1.530**
constituted by consensus, **2.xli, 471**
constitutive vs. regulative principle of,
5.xlvi
denoted by index, **5.380**
and divine thought, **5.222, 223**
vs. dream, **3.33**
existence of, **2.104, 269–70, 3.9, 27, 28–30, 31–32, 34, 44–45, 47, 49, 54, 56–57, 59, 81, 99, 254, 351–52**
existence of real things, **4.545–46**
external, **2.191, 470, 3.44–45, 47, 49, 78**
vs. fiction, **2.104, 191, 3.9, 46, 49, 57–58, 78–79, 271, 280, 370**
and final belief, **5.xlvi, 222**
and final opinion, **2.470, 4.xlvi**
of forces, **6.179**
grounded in uniformity of nature, **5.228**
idealistic conception of, **3.8–9, 56**
vs. ideality, **6.255, 258**
including three categories, **8.xcv**
independent of opinion, **3.27, 254, 351, 5.287, 288, 300, 305**
as independent of representation, **2.439**
independent of thought, **3.28–29, 30–32, 49, 55–56, 58, 60, 78, 271–72, 274, 370, 373**
or infinity, **1.43**
an influxual dependency of quality, **1.39**
of internal vs. external objects, **6.lxxxii**

Reality (*continued*)

- involving community, 2.xxviii, 239, 241
 - materialist view of, 8.123, 353
 - and maximum of degree, 5.236*n*
 - and mind, 2.470–71
 - nature of, 4.lxvii, 476–77
 - nominalistic conception of, 3.29, 55
 - nominalistic theory of, 2.175, 181–82, 468, 470–71, 479, 490
 - as object of belief, 3.57–59, 78
 - as object of final opinion, 3.79, 305
 - as object of true knowledge, 3.58
 - phenomenal, 5.288
 - producing sensations, 3.27, 29, 30, 34, 49, 254, 271–72, 351, 370
 - public, 3.253, 351
 - realistic conception of, 3.8–9, 29–30, 55–56
 - realistic theory of, 2.175, 468, 470, 479, 488, 490
 - real world, 4.250
 - of relations, 5.279–80, 281, 287–88
 - Royce's conception of, 5.222
 - scepticism about, 5.227
 - and secondness, 5.300, 304–5, 6.lxxxii, lxxxii, 171
 - sense of, 6.185–86, 189, 190
 - and settlement of questions, 5.228
 - true representation of, 3.78, 273
 - and truth, 5.222, 307
 - and ultimate agreement, 5.xlvi
 - of universals, 5.279
 - universe of real objects, 5.336, 338
 - unknowable, 5.228
 - and validity of induction, 2.269–70
 - See also* Actuality; Being; Existence; Idealism; Nothing; State of things; The Real
- Reason, 1.4, 2.126, 134, 358
- abstract, 8.34
 - affront to, 8.87, 389
 - age of, 1.111–14
 - agreeability to, 3.252, 259, 307, 350, 356–57
 - vs. authority, 2.194–95, 312, 3.242, 339
 - compulsion of, 6.355
 - conscious vs. unconscious, 6.496
 - ens* of, 5.403
 - its etymology, 8.24
 - human, 8.71, 352
 - vs. instinct, 5.327
 - macrocosmic, 6.386
 - mediating, 8.87
 - method of, 5.324
 - in nature, 6.xxxv, 386, 392, 8.17, 23, 352
 - objectified, 6.179
 - pure Kantian, 1.153
 - quintessence of, 6.190
 - relation of, 5.244, 245, 279, 300, 307–8, 452, 455, 6.177, 179, 211, 212, 442, 443, 448
 - scope of, 1.37–40
 - synthetic consciousness, 6.215
 - See also* Intellect; Mind
- Reasoning, 1.42–43, 2.243, 354, 4.xxv, 170, 170*n*, 245, 426, 568
- ampliative, 4.420, 429
 - amplificative, 3.297
 - from analogy, 4.432
 - analytic, 3.297, 303
 - apodictic, 1.186
 - art of, 6.10, 16, 30, 257, 258, 354, 8.xxix, lxi, 1, 6, 12, 71, 75, 363, 556
 - and breadth and depth, 2.84–86
 - chain of, 3.55–56
 - as computation, 8.xxxvi, 24
 - and computers, 5.xliv
 - concerning relative terms, 8.31
 - conclusion of, 3.244, 341
 - conscious— vs. sentiment, 6.387, 496
 - contemplation of ideal construction, 6.355
 - deductive, 1.362, 387, 394, 428, 458–60, 2.263, 446, 3.116, 297, 324, 328, 4.420, 5.164, 281
 - from definition to definitum, 2.85–86
 - demonstrative, 4.410, 5.372
 - diagrammatic, 8.xxxvi, 24, 64, 70, 290, 352, 366
 - dilemmatic vs. mathematical, 5.231, 359
 - doctrine of false, 5.351–52
 - and education, 5.345
 - from effect to cause, 3.332
 - epicheirema* as, 5.408
 - as experimentation, 6.xxix, 386, 8.19, 24
 - explicative, 3.297
 - extralogical, 3.3
 - fallacious, 2.221–23
 - from familiar experience, 6.386, 496, 498
 - in a generalized sense, 8.238, 239

Reasoning (*continued*)

in geometry, 3.14
 geometry as exemplar of, 8.271–72
 good, 8.24
 good and bad, 3.58, 255, 353
 its goodness depending on inferential habit, 6.356
 grounded on categories, 5.235, 245, 6.xlviii
 grounded on conceptions, 5.445
 guiding principle of, 3.245–46, 342–43
 hypothetical, 1.431, 434
 hypothetical, 2.177, 187–88, 213, 446
 individual train of, 8.201
 inductive, 1.180, 394, 405, 431, 2.187–88, 279, 446–47, 3.116–17, 297, 298, 312, 324, 4.lv, 382, 420–21, 5.xliv, 226
 and inference, 3.284
 about infinite numbers, 8.134
 Kepler's quality of, 8.289–91
 kinds of, 1.183, 393, 2.217, 446
 language as an instrument of, 8.70
 as living process, 6.xxix, 16
 mathematical, 6.12, 38–40, 254, 258, 8.xxxvi, 24, 31, 134, 140
 in mathematics, 4.lv, 490, 558
 in metaphysics, 3.40–41
 as a method of fixing belief, 3.15–16
 methods of, 4.lii
 modes of, 3.338
 nature of, 6.37
 necessary, 4.245, 412, 5.331, 332–33, 6.254, 258, 8.251, 252, 439
 object of, 2.357–58
 and observation, 4.400–401
 vs. observation, 8.251
 as observation of relations, 5.164, 281, 6.xxix
 ordinary, 8.251
 from particulars to general law, 3.332
 part of inquiry, 5.222
 as a part of investigation, 3.55, 60
 as passage from doubt to belief, 3.78, 246, 343
 passage from one belief to another, 6.354
 as passage to new belief, 5.372
 from past to future experiences, 3.300
 perception as, 8.235
 physical, 8.31
 polygon example, 6.354–55

a posteriori, 1.180, 189
 practical, 6.35
a priori, 1.154, 180, 185
 and probability, 3.289, 304
 probable, 2.263–64, 4.245, 412, 420–21, 6.lxxxiii, 254, 8.251, 439
 process, 8.236
 process of, 1.393
 progress in the art of, 5.325
 qualitative, 5.361, 371
 quantitative, 6.18, 29
 and the question of the Deity, 1.406
 and real world, 6.16
 reduced to syllogism, 3.97–98
 right, 8.17
 rudimentary, 5.171, 327, 335, 344, 459
 scientific, 1.175, 406, 428, 3.3, 116, 4.lv, 6.12, 8.113, 116, 242–43
 self-conscious, 6.388
 as settlement of doubt, 3.15–16
 as settlement of opinion, 2.357–58
 signs in, 5.224, 243
 simplest kind of, 6.4
 and social sentiment, 3.285
 statistical, 6.xli
 syllogism as mode of, 5.344
 syllogistic, 1.428, 6.7, 273
 synthetic, 2.268, 269, 3.297–98, 303–5, 312, 314, 316, 324, 328
 theory of, 3.289, 307
 thought connecting two ideas, 8.86
 through signs, 8.64, 69, 251
 triad in, 6.xlix, 166
 truth as its object, 5.329
 unconscious vs. conscious, 5.xliii, 327–28
 valid, 3.244, 341
 validity of, 4.1, 251–52, 5.332–33
 verbal definition of, 6.487
See also Argument; Dilemma; Exercise, logical; Fermat, Pierre de; *Il lume naturale* under Galilei, Galileo; Induction; Inference; Inquiry; Investigation; Observation; Syllogism; Thinking

Reasoning machine, 6.429
 its secret, 6.xxxv, 69
 its two impotencies, 6.xxxv, 70–71
See also Logical machine

- Reciprocity
 law of, **8.55**, 378–79
 in pairs of couples, **6.366**, 370
- Recognition, **8.138**
- Redemption, **2.434–35**
- Redtenbacher, Ferdinand Jakob, **1.96**
- Reductio ad absurdum*, **2.257**, 260–61, **3.267**,
 366, **4.254**, 424*n*, **5.350**, 352, 367–68, **8.112**,
 231, 238, 427
- Reduction
 of figures of syllogism, **1.511**
 of manifold to unity, **1.352**, 471, 474, 520,
2.45, 49–52, 54, 91, 199, 217, 218
 of syllogism, **2.32–37**, 39–42
 of time observations, **5.309–16**, 457
- Reduction thesis, **4.lvi**, **6.174–75**, 441, **8.lxxn.85**
 in theory of categories, **5.243**, 244, 306–7,
 455–56
See also Categories
- Reductio per impossibile*, **1.512**, **2.37–38**
- Reference
 to correlate, **1.353–54**, 473–79, 486, 522,
 524–25, 526, **2.53–56**, 57, 82
 to correspondent, **1.353–54**
 direct, **2.82**
 to ground, **1.352–54**, 473–79, 486, 522,
 524–25, 526, **2.53–56**, 59, 82
 to interpretant, **1.473–79**, 486, 523, 524–
 25, **2.162**
 to relate, **2.55–56**
 unprecindible, **1.525**
 of thought-sign, **2.224**
See also Representation; Sign(s)
- “Reflections on the Logic of Science,” **6.liv–lv**
 purpose of the book, **6.253**
- Reflex action, **6.190**, 191
- Reform
 difficulty of, **8.84**, 98
- Reformation
 age of the, **1.102–3**, 107–11
- Region
 in geometry of plane curves, **6.372–73**
 plane segment in ordinal geometry, **6.264–**
 67
- Regnault, Henri Victor, **4.107**, **6.302**, 481, **8.450**
- Regressus ad infinitum*, **8.238**, 239
- Regularity
 absence of, **8.386**, 391
 of action, **8.408**
 of chance-spontaneity, **8.124**
 developing from large numbers, **8.391**
 and existence, **6.209**
 fortuitous departures from, **8.xc**, 180
 frequency of, **2.264–65**
 in future events, **2.469**
 as general relation between chance actions,
8.xc
 and habit-taking tendency, **6.208**
 inexplicable, **8.105**
 or law, **6.206**, 456
 limits of, **8.liv**
 in nature, **2.264–66**, **3.81**, 300, 306, 307,
8.118, 120
 phenomena of, **8.197**
 product of growth, **8.liii**, 135
 of real existence, **8.181**, 408
 of substances and events, **6.209**
 of universe, **8.21**, 110
See also Induction; Order; Uniformity
- Reid, Thomas, **2.134**, **8.80**, 380, 392
 criticism of Berkeley, **1.348**
 on evidence, **1.400**
 philosophy of commonsense, **1.240**
The Works of Thomas Reid, **2.106**, 115,
 193*n*
See also Hamilton, William
- Reinhold, Ernst Christian Gottlieb, **2.76**
- Reis, Johann Philipp, **8.419**
- Reisch, Gregor, **6.447**, **8.363**
- Relate, **1.353**, 477–81, 523, 525–27, **2.53**, 55–56
 in dual relation, **6.370**
 equiparant and disquiparant, **1.475**, 486
 reference to, **1.474**
 and reference to correlate, **1.354**
 and reference to ground, **1.354**
 of a relative number, **3.286**
 of a relative term, **3.114**
 or representamen, **1.355**
See also Being; Category; Correlate;
 Relative(s)
- Relation, **1.xxvi**, 28, 335, 520, 525, **2.xlii–xliii**,
 xlv, xlvii, 409, 420
 actual, **3.108**
 of aiming, **6.178**
 of antecedent to consequent, **3.203–4**
 applicability of algebraic signs to, **2.363–64**
 of arbitrary adicity, **5.441**
 between attributes, **8.32**

Relation (*continued*)

- between connected objects, **6.268**
 - between feelings, **8.104**
 - between individuals, **3.93–94**
 - between objects of two sets, **3.92**
 - between parts of reasoning machine, **6.69**
 - between sensations, **3.107–8, 236–37**
 - between terms in proposition, **3.85–87**
 - category of, **2.xxviii, xxxi, 54–55**
 - causal, **1.54**
 - cognition of, **2.164, 177, 210**
 - considered as representation, **1.334**
 - of containing, **3.91**
 - continuous, **6.363**
 - converse of, **4.347**
 - and copula of inclusion, **5.434**
 - definition of, **4.2**
 - degenerate, **5.162–63, 177–78, 244–45, 280, 306, 308, 438, 455**
 - of dependence, **5.362**
 - diagrammatic expression of, **8.24**
 - discrete, **6.363**
 - dual, **5.456, 6.175, 363, 364–67, 368–71, 443, 488** (*see also* Couple; Dyad; Pair)
 - dyadic, **4.lix**
 - of equiparance, **5.412**
 - existence of, **2.475, 5.208**
 - expressed by copula, **3.91–92, 97–98**
 - formal, **3.6**
 - formal classification of, **6.363–67, 368–71, 488, 489**
 - general, **3.236**
 - of giving, **6.174–75**
 - ideal, **1.354, 476**
 - of ideas in judgment, **3.90**
 - of identity, **3.85**
 - individual, **6.363**
 - influxual, **1.54, 92**
 - inherence of, **5.279, 280**
 - of instants, **8.134**
 - internal, **1.336**
 - logical, **6.364, 368, 489**
 - as logical conception, **5.246–47**
 - logical division of, **2.390**
 - logical notation for, **5.444**
 - logic of, **5.372**
 - logic of relations, **3.114, 201**
 - mode of, **8.55**
 - modern view of, **5.434**
 - modes of, **4.3**
 - of more than two objects, **8.63, 69**
 - negation as, **2.420–21**
 - numerical, **2.494, 5.208**
 - objectivity of, **2.471**
 - observation of, **5.258**
 - observed in diagram, **5.xlvii, 164–65, 281, 288, 331–32, 381**
 - plural, **4.464, 6.363**
 - potential, **3.108**
 - quantified, **2.xliv–xlv**
 - and quantity, **4.2**
 - real, **1.354, 476, 3.6, 203–4, 5.239, 244, 245, 279–80, 300, 305, 379, 452, 455, 6.177, 364, 368, 489**
 - realistic hypostatization of, **6.187**
 - reality of, **5.281, 287–88**
 - of reason, **5.244, 245, 279, 300, 307–8, 452, 455, 6.177, 179, 211, 212, 442, 443, 448**
 - reduction of tetradic, **5.244**
 - reference to a correlate, **1.474–75**
 - relate and correlate of, **5.187, 308**
 - vs. relative, **2.xlviii**
 - relative number, **3.116–19, 285–89**
 - relative term, **3.93–95, 114–16, 192, 201**
 - represented by icon, **5.380**
 - of second intention, **5.183**
 - and secondness, **5.299, 304, 6.171**
 - second order of mark, **1.331**
 - self-relation, **2.137, 141, 142, 148, 6.177**
 - of selling, **6.175**
 - of sign, **5.162–63, 305–6, 379–80**
 - vs. sign for relation, **2.494**
 - six properties of relation L, **8.131**
 - of subsumption, **3.90, 329**
 - temporal, **3.202**
 - third category, **1.331**
 - and thirdness, **5.239, 304**
 - of time, **8.lxxiv, 130**
 - transitive, **3.97–98, 4.410, 421**
 - triadic, **8.xcv**
 - two elementary kinds, **6.268**
 - of two kinds, equiparance and disquiparance, **1.475–76**
 - variform, **6.364, 489**
 - zero, **6.363**
- See also* Antecedent; As great as; Connection; Correlate; Diagram; Graph;

Relation (*continued*)

See also Identity; Illation; Mediation;
 Predicate; Relate; Relative(s);
 Transitivity

Relationism

of Abbot, 5.279

“The Relations of Logic to Philosophy” (P 157),
 4.560

Relative(s)

alio-relative, 4.199, 209, 342–44, 457, 481
 association formulae for, 4.206–8
 as blank form, 6.175
 classification of, 2.418–20, 492, 4.198–201
 concurrent, 4.198–99, 209, 457
 converse of, 2.429, 3.201, 4.197–98, 199,
 202, 204, 331, 332, 340, 342, 454, 456,
 481, 482
 correlate of, 4.195, 197, 200, 201–4, 205,
 210–11, 391, 397
 degenerate, 5.186
 distribution formulae for, 4.206–7
 dual, 4.liii, 195, 195*n*, 196, 197, 199, 210–
 11, 217, 329, 332, 336, 338, 347, 391,
 453–54, 457, 481, 502, 5.213, 6.175
 elementary, 2.xlv, 391, 408–14
 free, 4.342
 general, 3.94–95
 individual, 3.93–95, 4.195, 196, 202, 205,
 329, 342
 inferences involving, 2.245
 infinitesimal, 2.391, 395, 400–401, 408, 426
 involution, 4.330
 kind of term, 6.166
 limited, 2.384, 386
 logic of relatives, 3.115
 method of limits, 4.204–6
 negation of, 4.196, 198–202, 204, 205–9,
 340, 342–44, 454–55, 456, 481, 482
 negative of dual, 6.489
 notation for, 8.55, 139
 opponent, 4.198–99, 457
 plural, 4.195, 210–11, 391, 502
 as a primary quantity, 3.201
 relate of, 4.195, 197, 200, 201–4, 205, 210–
 11, 397
 or relation, 6.363, 365, 368, 371
 of second intention, 5.213
 self-relative, 4.199, 342–44, 457
 simple, 2.417–20, 425, 4.195, 196, 198

of simple correspondence, 4.306–7

of single correspondence, 4.308

transitive, 4.299, 308

triple, 4.196, 197, 199, 210–11, 301, 332,
 333, 396–97, 465, 5.213, 6.175

universal extremes of, 2.409

unlimited, 2.384, 386

See also Algebra, of relatives; Logic; Logic,
 of relatives; Relation; Term(s)

Relativism

Peirce’s, 5.xxxvi

Relativity

principle of, 6.446

Religion, 1.16, 37–40, 493, 4.lxiii–lxiv, lxvi–lxvii,
 6.lxxxiii, 440, 497

anti-Christian, 8.342

basis of, 2.280–81, 435–36

conciliated with science, 8.xxxvii, 34, 240–
 41, 346, 370

and conscience, 5.229

essence of, 3.322

free, 8.xxxiii

history of, 8.294

how it should be regarded, 1.108–10

metaphysics and, 1.62–63

necessitarian, 8.155

and order of nature, 3.306

Peirce’s interest in, 8.lxxiv, lxxvi–lxxviii

philosophy of, 5.230, 260, 285–86, 447,
 8.155

positivist approach to, 2.122–23, 125–28

and refutation of materialistic views, 6.428

religious experience, 2.435

resting upon religious experience, 8.389

revelatory in Hegelianism, 8.195

and science, 1.244, 2.280, 435, 5.260, 285–
 86

vs. science, 3.321–22

See also Atheism; Church; God; Theism;
 Theology

Rembrandt, 5.30, 34, 35, 8.265, 443

Remsen, Ira, 4.xxxix, lxvi, lxvii, 8.lxxxix*n*.111

Rémusat, Francois Marie Charles de

Abélard, 2.312

Renouvier, Charles Bernard, 8.165*n*.1, 245, 403,
 436–37

Repetition

algebraical principle of, 8.211, 213–15, 421,
 422

- Repetition (*continued*)
 of nervous stimulation, 6.192
 “Reply to the Necessitarians” (P 525), 8.liv, xciv, 389, 525, 606
 Report of the Superintendent of the United States Coast Survey, 3.xxiii, xxvi
 “Report on Gravity at the Smithsonian, Ann Arbor, Madison, and Cornell” (P 385), 5.xxxii
 description of tables in, 6.484–86
 Ferrel’s evaluation of, 6.481–82
 flaws in, 6.lxv
 Lenzen’s evaluation of, 6.lxvi–ix
 its loss, 6.lxvi
 Newcomb’s evaluation of, 6.lxv, 486
 Peirce’s work on, 6.xxvii, xlvi, lix–lxiii, lxiv–vi, 8.xxviii, xli, xlv, lii, lxii–lxiii
 Representamen, 1.xxxii, 355, 525, 2.55
See also Category; Representation; Sign(s)
 Representation, 1.xxvi, xxxii, 33, 79, 145, 151–52, 159–60, 169, 274–75, 289, 313–14, 335, 342, 353 478–79, 499, 515, 520, 525, 2.xxviii, xxxi, 4, 10, 173, 233, 236, 439, 3.xxxv, 5.111
 abstract, 2.114–15
 addressing itself to the mind, 3.62–63, 66
 based on causation, 3.62–63, 66, 68
 based on real connection, 3.66
 character of, 1.326
 comprehension of, 2.4, 74
 correlate of, 2.53
 as defined by Hamilton, Hegel, and Kant, 1.323
 determined, 2.3
 of equiparance or disquiparance, 1.486
 extension of, 2.4, 74
 external, 1.307–8, 324, 336
 in geometry, 8.106
 ground of, 1.327–28, 2.53
 idea as, 3.62–63, 68
 images as, 1.62
 immediate, 3.235
 imperfect, 3.64
 inference as, 5.245
 is sign, 1.80
 kinds of, 1.174, 257, 303–4, 308, 322, 328, 354–55, 467–68, 474–76, 480, 485–86, 5.379
 marks of, 1.324, 327, 330–31, 334, 354–55, 475
 material quality of, 2.228
 meaning of, 3.65
 mediate, 3.235
 mediating, 1.474, 480, 523, 2.53–54
 mental, 3.235
 object of, 3.62–66, 68
 as an object standing for another object, 3.62, 65
 outline, 8.290
 perfect, 1.145
a priori, 1.217
 as a process, 3.63–64
 producing another representation, 3.63–64
 and proposition, 2.2
 psychological, 2.274–75
 quality of, 3.62–63, 64–66
 as reference to interpretant, 2.53–54, 162
 relate of, 2.53
 in sheet of possibility, 5.331–32
 of space and time, 1.248
summum genus, 1.326
 as a thing standing for another thing, 3.76
 and thirdness, 5.239
 as thought, 3.46
 three essential conditions of, 3.62, 65–66
 three kinds of, 2.56
 its three modes, 6.212–13
 true, 3.66, 78, 273
 vicarious, 8.137
See also Connection; Copy; Diagram; Icon; Index; Likeness; Logos; Meaning; Perspective; Projection; Representamen; Sign(s); Symbol(s)
 Representationism
 egotistical, 5.391
 Reproduction, 8.432
 and natural selection, 6.200, 453, 8.102
 in protoplasm, 8.lxxxix, 175, 179, 193
 strengthening of its power, 6.202
 Reproductivity, 8.22
 Repsold, A. & G.
 Peirce’s modification of Repsold pattern, 6.282, 283 *illus.*, 284
 pendulum of, 3.xxiv, xxv, xxvi, 217, 218, 223, 230, 232, 4.84, 89–90, 127, 129, 132, 353, 364, 529, 563, 585, 5.1, 16
 pendulums of, 6.222, 314, 349, 467

- Repsold, A. & G. (*continued*)
 pendulum support of, 4.xxviii, 84, 89–90,
 127, 129, 132, 138, 140–41, 157–60, 516,
 517, 518, 520–21, 525, 568
 Repsold tripod, 6.284
 reversible pendulum, 6.460
 tripod support, 5.8, 16, 18, 20
- Requisitum, 1.330
- Research
 cost of, 4.xxviii, 73–74
 economic urgency of, 4.74–77
 economy of, 4.xxxvi
 method of, 4.378, 379, 509–10
 non-quantitative, 4.72, 73
 right and wrong method of, 3.102, 105
 utility of, 4.73–74
See also Inquiry; Investigation; Knowledge;
 Reasoning
- Resemblance, 6.179, 8.31–32
 among feelings, 6.187
 association by, 2.237, 238, 6.187
 based on comparison, 3.48
 between individuals, 2.467
 of concepts, 3.56
 denotation by, 2.237
 of facts, 3.305
 of feelings, 3.37, 8.97
 in an iconic sign, 6.212–13, 457
 of ideas, 3.69–71, 73, 103–5, 5.326, 8.86,
 127, 149, 153, 154
 imposed by mind, 2.475
 inference based on, 3.330–31
 inference from, 5.327
 of observations, 3.43
 as relation of reason, 5.455, 456
 relation of reason, 6.177, 211, 443, 457
 of sensations, 3.48, 236–37
 and testing hypothesis, 3.331
 of thoughts, 3.43, 74–75
 of two ideas, 6.189–90
See also Icon; Likeness; Similarity
- Resistance
 sense of, 8.353
- Residential formula, 6.lxv, 310, 482
- Resnik, Michael D., 6.438
- Respect
 as correlate of sign, 2.223–25
 as object of consciousness, 2.224–25
See also Representation; Sign(s)
- Responsibility
 and action, 6.178, 443
 doctrines of, 1.493
 and immortality, 1.493–94
- Restriction, 2.84
See also Breadth; Depth
- Result. *See* Rule, Case, Result
- Resultant
 of reacting forces, 5.356, 461
 and thirdness, 5.239
- Retroduction, 1.xxxii, xxxiii
- Retroggression
 a temporal expression of stage, 1.38
- Revelation
 Book of, 8.198
- Revelations
 abstract, 1.47
- Reverie, 8.13
- Reverses
 singular judgments, 1.346
- Reversibility, 8.407
 forbidden by law of habit, 8.387
 of mechanical operations, 8.102, 432
 non— of growth, 8.xxxix, liii, liiin.44, 244,
 432, 433
 of physical laws, 8.390
 of physical process, 8.387
 of sign of time flow in motion equations,
 8.16
- Reyes y Prósper, Ventura, 6.lxxiii, 8.xlviii.35
- Reynolds, Joshua, 5.30
- Rhetoric, 8.lxxxviii, 356
 and dilemma, 5.173*n*, 325, 355, 358
 formal, 2.57
 in plan for dictionary, 8.294
 pure, 8.xcv
 rhetorical argument, 2.24, 24*n*–25*n*, 295
 rhetorical syllogism, 5.404
 sixteenth-century rhetoricians, 6.183, 447
 and synonymy, 3.101
 its use in promoting the correspondence
 course, 6.xxviii–xxix, 21–26, 420
See also Grammar, Logic, Rhetoric
- Ribot, Théodule, 8.xxx, xxxv, 13–16, 363
The Psychology of Attention, 8.xxx–xxxi,
 xxxix, 13–16, 363–64, 538
- Ricardo, David, 4.586, 5.30, 34, 323, 325, 8.265,
 269, 639
 his inference, 8.21, 365

- Richelieu, 5.30, 34, 8.265
- Richet, Charles, 6.xli, *xlin*.18, 435
- Richter, Jean Paul, 5.30, 34, 35, 8.265, 639
- Ridgeway, William, 8.lxxxv, 349, 350, 351, 466, 467
- Riemann, Georg Friedrich Bernhard, 4.546, 590, 5.34, 256, 8.lxv*n*.76, lxvii, lxxx*i*, 34, 272, 273, 366, 369, 382, 424, 447
- Rienzi, Cola di, 5.30, 34, 36, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 104–6, 8.265, 639
- Ripley, George, 8.392
- Risteen, Allan Douglas, 6.xliii, *xliiin*.24, xlvi*i*, 8.xlvi, xlvi*ii*, xlix, lxviii, lxx*i*, 407, 425, 426, 613, 622
- Ristori, Adelaide, 5.30
- Ritter, Heinrich, 2.76
- Roberts, Don D., 5.xxviii*n*, *xlviin*, 6.xlv*n*.30, lxx*i*, lxxxii*n*.63
- Robertson, Robin, 8.391
- Robin, Richard S., 8.652
Studies in... Peirce, 4.572
- Rogers, Fairman, 6.487
- Rogers, William Augustus, 3.227, 5.13, 426, 6.353
- Roget, Peter Mark
Thesaurus, 1.19
- Roland, Jeanne-Marie (Madame Roland), 8.lxv, *lxv*n.75, 265
- Rollo, 5.30
- Romanes, George John, 8.42, 373, 428
- Rome
principal dates of her history, 8.202
- Rood, Ogden Nicholas, 3.216, 4.xxiv, 48–49, 6.447, 8.lix, 459, 492, 623
Modern Chromatics, 4.xxix, 47–49, 161, 561
- Roosevelt, Theodore, 6.liv
- Ropes, Sarah, 1.xv
- Rorty, Richard, 8.401
- Roscelin (Roscellinus), 2.239, 276, 317, 481, 8.200
- Roscoe, Henry Enfield, 2.288, 289
Spectrum Analysis, 2.xxii, 285*n*
- Rosén, Per Gustaf, 3.183, 391, 392, 478, 481
- Rosenberger, Ferdinand, 8.384
- Rosenkranz, Johann Karl Friedrich, 2.132, 193*n*, 219*n*
- Roshana, 8.lxxii, 329, 333, 462, 655, 657
her abduction by Karolos, 8.317–19
conversation with Karolos, 8.324–27
her marriage to Fasl Ullah, 8.325
her marriage to Karolos, 8.336–37
her second abduction by Karolos, 8.335–36
talk with Karl on matrimonial differences, 8.337–38
in Vienna, 8.334
- Rösling, Christian Lebrecht, 2.74
- Rothschild, Mayer Anselm, 1.456
- “Rough Notes on Geometry, Constitution of Real Space,” 8.623
- Rousseau, Jean-Jacques, 5.30, 34, 35, 8.lxvi, 265, 268, 639
- Row. *See* Arrangement; Telltale row
- Rowe, Nicholas, 1.20
- Rowland, Henry Augustus, 4.xxxix–xl, 576, 6.xliii, *xliiin*.23
- Royal Society of London, 8.lxix
- Royce, Josiah, 4.xlviii, 5.xxv, xxxvi, xxxvii, xxxix, xlv, xlvi, 225, 434, 447, 451, 6.xxvii, xxviii.4, lxxx*i*, 471, 8.xlix, *lvn*.52, *lixn*.63, lxiii, *lxvn*.74, lxxx*i*, lxxxin.102, 373
his conception of reality, 5.222
his dispute with Abbot, 8.lv–lix, *lvn*.53, *lvin*.56, 245–47, 433–38, 627–29
on error, 5.223–24
on the existence of God, 5.xxxv, 228–29
godlike talk at Royce’s, 8.lxxx*i*
vs. Hegel and Plato, 5.221–22
his idealism, 5.xxxx
his method of reasoning, 5.229–31
moral philosophy of, 5.230–33
Peirce’s opinion of, 8.lv–lvi, 435–36
on possibility, 5.xxxxv, 226
his view on tychism, 8.lxxxin.101
The Religious Aspect Philosophy, 5.xxxxv, 221–34
- Rubens, Peter Paul, 5.30, 34, 35, 8.265
- Rucker, Darnell, 8.lxxxii*n*.103
The Chicago Pragmatists, 4.lxv
- Rudolph II, 8.288, 289, 452
- Ruhmkorff, Heinrich Daniel
coil of, 3.136
- Rule
of algebra, 5.363
distinguished from principle, 8.67
habit as general, 5.162, 343, 379
immediate application of, 6.4
and *modus ponens*, 5.334

Rule (*continued*)

- as result of diagram experiments, 5.288
- sylogistic application of, 5.343–44
- tendency as, 8.387
- See also* Algebra; Combination;
 - Commutation; Contradiction; Dilemma;
 - Identity; Law; *Modus ponens*;
 - Proposition; Syllogism
- Rule, Case, Result, 1.xxxv, 314–17, 320–21, 349–50, 362–68, 370–71, 376, 378–79, 382, 384–85, 387, 410, 412, 414, 428–32, 434–35, 441–42, 444–45, 506
- Rule of double position, 6.471
- Rule of false, 6.252, 314, 320, 471
- Rule of simple position, 6.471
- Rule of three, 8.52, 378
- Rule of thumb, 8.134, 140
- Rumford, Count. *See* Thompson, Benjamin (Count Rumford)
- Rush, James, 8.355, 469
- Ruskin, John, 1.xxvii
 - on Schiller, 1.10
- Russell, Bertrand, 2.xxxi, 5.xxxiii
- Russell, Francis C., 6.xliv, lv, 8.xxxiii, xxxiv, xxxv, lxxvi, lxxix, lxxx, lxxxix, xciv, 373, 454, 594, 658
- Rutherford, Lewis Morris xxix, 4.4, 5, 283, 577, 586
 - spectrometer of, 4.60, 240, 269–70, 271–73, 282, 284, 578

S

- Saadi, 5.30, 34, 35, 8.265, 443, 639
- Sabine, Sir Edward, 2.457, 4.150, 355, 530, 534, 6.348, 486
 - “On the Reduction to a Vacuum,” 4.565, 593
- Saegmuller, George N., 6.485
- Sainte-Beuve, Charles Augustin, 6.lxx
- Sainte-Claire Deville, Henri Etienne. *See* Deville, Henri Etienne Sainte-Claire
- Saladin, 5.30, 34, 36, 8.265, 443
- Salii, V. N.
 - Lattices with Unique Complements*, 4.xlvii
- Salter, William Mackintire, 8.42, 373
- Salvation, 8.lxxx
- Sample
 - induction as sampling, 3.312–13

- random, 3.312–13

- Sampling
 - analogous to welding of ideas, 8.21
 - inference from, 8.113–14, 115, 116
 - its principle, 6.205
 - random, 8.116
 - See also* Induction
- Sang, Edward
 - “Pendulum,” 4.593
- Santiago
 - Peirce’s middle name, 8.xlviii.35
- Sarony, Napoleon, 8.ii *frontispiece*
- Sarto, Andrea del, 5.30
- Satan, 2.355, 8.185
- Saturday Club, 1.xvii, 3.xxxi
- Savage, Mary J., 6.lxxviii
- Savonarola, Girolamo, 5.30, 34, 35, 8.265, 268, 639
- Saxe, Maurice de, 5.30, 8.lxvii.75, 265, 639
- Saxon, Samuel, 1.134, 138
- Say, Jean Baptiste, 3.209
- Scalar, 2.409, 411, 414–15, 3.177
- Scale
 - logarithmic, 8.xlii, xlvi, 48–54, 378, 547–48
 - of measurement, 3.377
 - of probability, 3.297
 - quantitative, 8.71
 - reduction of scales of star magnitudes, 3.182–83, 185
 - shifting of, 8.107
 - transference of part of, 8.52–53
 - of truth, 8.xxx, 71, 72, 73, 74, 75
 - See also* Measurement; Quality
- Scale-table
 - invention of, 8.48–54, 378
 - trigonometrical, 8.53
- Scepticism, 1.339
 - absolute, 2.112–13, 242–43, 247, 5.221, 230, 232
 - ethical, 5.231
 - false, 5.229
 - initial, 2.212
 - and materialism, 1.114
 - method of refuting it, 6.428
 - moral, 5.232
 - Peirce’s, 6.lv
 - about reality, 5.227
 - vs. theism, 2.123
 - See also* Doubt; Philosophy

- Schaeberle, John Martin, **6.277**, 342, 475
 Scheele, Carl Wilhelm, **5.30**
 Scheherazade, **6.443**
 Scheinmee Homestead, **6.xlvi**
 Schelling, Friedrich Wilhelm Joseph von, **2.111**,
 135, **5.222**, 445, 446, **6.li**, 168, 440, **8.135**, 364,
 391–92, 410
 Schemata
 Kant's, **5.258–59**
 Scheme
 mathematical diagram, **6.258–59**, 269–70
 Scheutz, Georg, **2.458**
 Schiaparelli, Giovanni Virginia, **3.377**
 Schiller, Ferdinand Canning Scott, **6.438**
 Schiller, Friedrich von, **1.12**, **5.30**, 34, 35, **8.265**,
 278, 279, 639
 his definition of beauty, **1.10–12**
 Peirce's early interest in, **1.2**
 three impulses, **1.xxvii**, xxviii
 Aesthetic Letters, **1.xviii**, xxvii, 2, 10, 12
 Schjellerup, Hans Carl Frederik Christian, **3.389**
 Schlegel, Friedrich von, **1.21**
 Schlötel, Wilhelm, **4.590**
 Die Logik, **4.466**, 590
 Schmid, Carl Christian Erhard, **2.114**
 Schmidt, Johann Friedrich Julius, **3.183**, 388
 Schneider, **4.276**
 Scholasticism, **2.137**, 314, **8.418**
 and authority, **2.312**, 314
 vs. Cartesianism, **2.211–13**
 its development, **8.200**
 at its height, **1.106–7**
 nature of, **2.465–67**
 and nominalism-realism controversy,
 2.464, 487–88
 and science, **2.314–15**
 spirit of, **2.465–66**, 467
 Schönfeld, Eduard, **3.xxv**
 Schonrich, Gerhard, **6.440**
 School
 Dr. Jennison's, **8.46**, 375–76
 Hopkins Academy, **8.46**, 376
 Ma'am Sessions, **8.46**, 375
 Miss Ware's, **8.46**, 376
 Schopenhauer, Arthur, **5.34**, 37, **8.265**, 278, 279,
 639
 Schott, Charles Anthony, **4.xxxii**, 350, 351, 370,
 372, 376, 578, **5.xxix**, xxxvii, 13, 310, 457,
6.lii, lxii
 and determination of the figure of the
 earth, **4.356**
 and determinations of gravity, **4.362–65**
 and measurement of meter, **4.298**
 pendulum experiments of, **4.374**
 on precipitation, **4.446n**
 Tables and Results, **4.589**
 Tables and Results of Precipitation, **3.170**,
 171
 The Eastern Oblique Arc of the United
 States, **3.xxviii**
 The Transcontinental Triangulation,
 3.xxviii
 Schott, Johannes, **8.1n.1**, 363
 Schröder, Ernst, **2.xxxi**, **4.xliv**, xlvii, xlviii, l, lix,
 25–26, 32, 36, 184, 188, 406, 407, 572, 573,
5.xxvi, xxxiii, 173n, 175, 224, **6.xliv**, xlviii.26,
 lxxiii, 28, 422, **8.xlvi–xlvi**, xlviii.35, 379, 417,
 525, 632, 636
 Der Operationskreis, **4.lv**, 182n, 561, 573,
 587
 "Exposition of a Logical Principle," **5.xxvii**
 "Nachschrift," **4.561**
 Schröder-Bernstein theorem, **5.442**
 Schubert, Hermann, **6.492**
 Schultze, Max, **8.399**
 Schulze, Gottlob Ernst, **2.76**
 Schwegler, Albert
 History of Philosophy, **2.133**
 Science, **4.423**, 446, 544, **8.xxviii.6**, xxxivn.15,
 xlviii, lxiii, lxiii.70, 622
 ancient, **4.378–79**
 anti-Christian teachings of, **8.lxxxv**, 347–
 48
 applied, **6.247**
 certainty in, **2.125**, 127, 176, 294, 339, 472
 classification of, **1.xxxiii**, 489, **8.lxviii–lxix**,
 lxviii.80, lxxi, 275, 276, 276 *illus.*, 366,
 447–48, 645–46
 classificatory, **2.294**, 352, 354, **3.276**, 338
 vs. common sense, **6.388**
 concepts of, **3.277–78**
 conciliated with religion, **8.xxxvii**, 34, 240–
 41, 346, 370
 deductive and inductive, **1.487–88**
 definition of, **1.55**
 as description of direct observation, **6.246**
 dialectical procedure in, **6.180**

Science (*continued*)

- discoveries of, 4.73–74
- its distinctive procedure, 6.386
- division of sciences, 3.4–5
- divisions of, 1.303
- empirical formulae in, 3.333
- entry in *Century Dictionary*, 8.lxix, 645, 646, 653
- evolutionist, 4.547–48
- exact, 3.276
- formal, 1.303
- generalization in, 3.277–78
- good rule for, 6.247
- and good sense, 6.496, 498
- great steps in, 6.172
- history of, 3.276, 5.xix, 6.253, 8.lx–lxi, 17
- hypothesis in, 3.4–5, 338
- hypothetic, 1.488
- and immortality, 6.61, 63–64
- incompleteness of, 8.347
- and induction, 5.226
- inference in, 4.382, 427
- vs. law, 8.lxxxiv
- law of, 3.319, 334–35
- its living thought, 5.359
- logic as, 4.378, 400–401, 510, 585–86
- logic of, 1.xxiii–xxiv, 441, 465, 8.167*n*.2, 465
- measurement in, 3.276–77
- method of, 2.313–15, 3.3, 27–28, 243–44, 253–56, 272, 275, 276, 339–40, 351–54, 370–71, 374, 4.lii, liv–lv, lxvii, 379–81, 401, 545
- modern, 4.378–79, 8.42, 202, 243, 346, 347
- molecular, 5.xxxvii
- moral teachings of, 8.lxxxiv–lxxxv, 345–48, 465
- natural, 2.128, 136, 169, 177, 187–88, 190, 3.59, 276–77, 338, 8.lxx, 232–33, 234
- and nominalism, 2.486, 488–89
- and noumenism, 5.288
- observational, 3.237, 379, 5.164, 281
- observation in, 4.354–55
- Pearson's conception of, 8.lxxxvii, 352
- Peirce's duty toward, 5.xxxvii
- and philosophy, 1.9, 5.289
- vs. poetry, 6.187
- positive, 1.303, 6.254
- and positivism, 2.125, 127–28
- predesignation in, 4.438–39
- its progress despite human improvidence, 8.269–70
- progress in, 2.339
- and progress in art of reasoning, 5.325
- progress of, 6.246
- purely inductive, 3.338
- in pursuit of eternal verities, 8.lxxxv, 465
- qualitative and quantitative stages of, 6.172, 441
- quantitative, 3.276–77
- and realism, 2.488–89
- and religion, 1.244, 5.260, 285–86
- vs. religion, 3.321–22
- and research on telepathy, 6.xli, 110–11, 141, 380, 381, 394, 495
- vs. school disputation, 6.102
- scientific discovery, 3.333
- scientific investigation, 3.27–28, 254–56, 352–54
- scientific reasoning, 3.3, 116, 4.lvi
- scientific theory, 4.382, 547
- scientific vs. bureaucratic work, 5.xxix, xxx, 160
- of signs, 3.83, 98
- simultaneous discoveries in, 8.204
- specialism in, 6.381–84, 385, 386, 407
- and successful prediction, 6.lxxvii, 399–400
- success of natural, 5.286
- Summa Scientiæ*, 8.292
- sum of human activity of discovery, 8.347
- vs. theology, 8.lxxxiv, 34
- theoretical, 3.334, 336, 338, 6.246–47
- theories of, 2.128–29
- as triumph of analysis, 6.451
- in the United States, 4.152–55
- See also* Astronomy; Biology; Chemistry; Explanation; Geodesy; Law; Mathematics; Mechanics; Physics; Physiology; Psychology
- Science*, 5.xxii, xxix
- “Science and Immortality,” 8.liii
- “On Science and Religion” (MS 505), 4.lxvi–lxvii
- Scientific procedure, 1.55–56
- Scipio Africanus, 5.30, 34, 36, 8.265
- Scope
 - of a term, 2.72
 - See also* Extension

- Scotism, 2.321, 335
See also Duns Scotus
- Scott, Charles P. G., 5.480
- Scott, Walter, 5.30, 34, 35, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 104–6, 8.265
- Scottish school of common sense, 2.136, 137, 278–79, 436, 485
- Scotus, John Duns. *See* Duns Scotus, John
- Scriptibility
of logical formulae, 8.208–9, 419–20, 613
- Sebastianus Contus, 2.350
- Sebeok, Thomas A., 5.xxvii
- Secchi, Pietro Angelo, 2.288, 3.183, 388, 389, 8.248, 439
- Second
logarithmic, 6.lxv, lxvii, 241*n*.2, 289–90, 479
notion of, 1.486
vs. other, 2.55
sidereal, 6.304
solar, 6.304
See also Category; Representation; Third
- Second (Secondness), 8.17, 21, 109, 110
absolute, 6.li, 173–74
and bivalent atoms, 5.306–7
blind connection, 8.87
and cogito, 5.240
and cosmogonic flashes, 6.209–10
definition of, 6.170
degeneracy of, 6.177, 211, 442
degenerate, 5.300, 307–8
description of, 5.239, 295, 299–300, 304–5, 6.171–72, 173, 211
and experience, 6.441
external, 6.177–78
and externality, 6.173
its familiar but incomprehensible notion, 6.172
vs. First, 5.238, 300, 305, 307
genuine, 6.211
genuine vs. degenerate, 6.171
and haecceity, 6.206
internal, 6.177
internal second, 5.455
involving another second, 6.170
involving firstness, 6.171
and law, 5.293, 295, 301
mood or tone of thought, 6.169
object as, 6.171, 211, 441
and otherness, 5.245, 295, 299, 304, 446
overlooked by Hegel, 6.179
overlooked by philosophers, 6.67–68
and polar sense, 6.186, 214
precission of, 5.238, 446
and principle of heredity, 6.202
reactional, 8.86, 109
reality as, 5.299, 304–5
reality of, 5.xlv, 6.lxxxii, lxxxiii
relation as, 5.295, 299, 304
secundarity in protoplasm, 8.400
tangibility of its idea, 6.171
See also Categories; Category; Conception; Degeneracy; First (Firstness); Reaction; Third (Thirdness); Triad
- “Second Paper,” 8.160 *illus.*, 595, 596–97
- Secundarity, 8.400
- Sedgwick, Adam, 6.403, 502
- Sedgwick, William Thompson, 4.lix
- Seelye, Julius Hawley, 2.133
- Segment
in ordinal geometry, 6.263–64, 473
- Seidel, Ludwig Philipp von, 3.182, 183, 185, 389, 483, 484
- Sein* (*Seyn*), 2.145, 146, 150, 151, 156
See also Being; *Dasein* (*Daseyn*); Nothing
- Selection
natural, 3.244–45, 318–19, 341–42, 8.19, 102, 190, 204, 414
sexual, 8.190
- Self, 2.55, 162, 169
vs. absolute ego, 2.203
as correlate of thought, 2.179
feelings of, 3.51
intuitive knowledge of, 2.201–4
knowledge of, 1.167, 3.54
negation of, 2.152–53
personal, 8.398
as sign, 2.223–24
and tendency to act, 3.50
ultimate economical end, 8.187
See also Awareness; Consciousness; Ego; Person
- Self-consciousness, 2.167, 179, 6.489
and cognition, 3.51–52
defined, 2.200–201
delusion of, 8.398
in Descartes, 3.259, 356–57
development of, 2.167–69, 201–3

- Self-consciousness (*continued*)
 dual consciousness, **6.215**
 as feeling, **3.51**
 immediate, **8.lxxxiv**, 155
 as inference, **2.162**, 204
 and internal sense, **6.458**
 intuitive, **2.169**, 190, 201–4
 and knowledge of external world, **2.213–14**
See also Awareness; Cognition;
 Consciousness; Ego; Knowledge
- Self-control
 inhibitory will, **6.186**, 189
 and internal volition, **6.448**, 458
 and logical machine, **6.429**
 statical dual consciousness, **6.215**
- Self-correction, **8.388**, 431
 of scientific method, **8.liii**, 243
- Selfishness
 deification of, **8.342**
 and logicity, **3.284**
- Selfrelation, **6.364**, 365, 488, 489
 and relation of reason, **6.177**
- Sellers & Co., **5.150**
- Selling
 as triadic relation, **6.175**
- Semeion*, **2.2**
- Semeiotic, **1.xxii**, xxviii–xxix, xxxiii, 174, 303–4,
 2.xxvii, xxviii
- Semiosis, Semeiosis, **1.xxxii**, **6.lxxxiii**, lxxxiv
- Semple, Robert, **8.280**
- Seneca, **8.388**
- Sensation, **1.4**, 18, 85, 145, 160, 489, **2.177**, 228,
 230, 303, 468, **4.46**, 47, 163–64, 250, **5.298**,
8.569
 and abstraction, **2.231**
 all which is present to consciousness, **6.xliv**
 of believing, **3.22**, 247, 344
 capacity for, **2.205**
 category of innateness, **1.81–82**
 caused by reality, **3.27**, 29, 30, 34, 49, 254,
 351, 370
 cause of, **2.470**
 as cognition, **4.421–22**
 of color, **3.107**, 212–13, 215–16, 235–37,
 390, **4.48**
 conception of, **1.473**
 connection of feelings, **8.97**, 104, 155
 determination of, **2.179**, 206
 diagram of, **8.569**
 differences of, **6.118**
 of doubting, **3.22**, 247, 344
 elementary, **3.211**, 213, 236
 as an element of consciousness, **3.48**, 262–
 63, 361
 as an element of thought, **3.102**, 105, 235,
 337
 explanation of, **8.155–56**
 of extension, **3.33**
 external, **2.477**, **6.189**, 448
 external sense, **3.242**, 339
 vs. feeling, **8.96**
 first, **3.23**, 34
 first— not assignable, **6.xliv**
 form of, **1.159**
 and idea, **2.304–6**
 immediate, **2.390**, **3.20**, 21, 33, 235, **8.137**,
 148
 impressions of sense, **3.34**, 51
 as inference, **2.233**
 influence of faint, **5.135**
 intensity of, **3.211–12**, 236–37, 294, 382–
 83, 387–88, **5.122**
 internal, **2.171**, 477
 intuitive, **2.163**, 179
 involving a general idea, **8.lxxxiii**, 151, 152,
 353
 knowledge of, **3.51–54**
 of light, **3.211–13**, 215–16, 382–83
 logical functions of, **1.472**
 a mental sign or word, **1.495**
 and mind, **3.52–54**
 and nerve excitation, **5.122–23**
 and nervous system, **3.122–23**
 as a new idea, **3.35–36**, 40
 order of, **2.306**
 and perception, **8.238**
 perception of differences in, **5.xxv**, 122–35,
 436
 persistence of, **6.191**
 as a phenomenon of soul, **3.11**
 physiology of, **4.40**, 48
 as predicate, **2.227–28**
 of pressure, **8.156**
 primary, **8.155**
 primary and secondary, **5.134**
 pure, **3.235–36**
 relations between sensations, **3.107–8**,
 236–37

Sensation (*continued*)

- as representation, 3.235
- resemblance of sensations, 3.48, 236–37
- resembling, 6.189–90
- secondary, 5.288, 399
- and sign, 3.68
- thought derived from, 3.29–30
- visceral, 6.189
- See also* Feeling; Impression; Perception; Physiology; Psychology; Sense; *Unterschiedsschwelle*
- Sensationalism, 2.476, 486, 3.2, 52
 - Kant against, 5.258
- “On Sensations of Color,” 6.lvii
- Sense, 1.456, 6.202
 - as abstracting mechanism, 2.236
 - of action and reaction, 8.104
 - affected by external things, 2.469
 - of beauty, 2.172
 - of “can” and of “cannot,” 6.214
 - categories not given in, 6.182
 - chemical, 8.156
 - external, 1.31, 6.215
 - external and internal, 6.186, 458
 - impressions of the, 1.157
 - included in dual consciousness, 6.214, 458
 - internal, 2.166, 171, 200
 - manifold of, 1.47, 88
 - vs. mind, 6.187
 - moral, 2.172, 206
 - object of, 2.136, 170, 472
 - polar, 6.l, 185, 186, 189, 190, 448
 - of reaction, 8.96, 105, 109, 181, 353
 - reflective, 6.177
 - of resistance, 8.353
 - of sight and hearing, 8.156
 - unrecognized avenues of, 6.lxxix, 381
 - See also* Common sense; Good sense; Impression; Sensation
- Sense-impressions
 - criticism of Pearson’s view, 8.lxxxvii, 353, 467
- Sensibility
 - property of protoplasm, 6.195
 - sharpened by sympathy, 6.118
- Sensitiveness
 - hypnotoid, 6.125, 148
- Sensualism, 8.153
- Sentence, 2.430–31

See also Proposition

- Sentiment, 8.xcii, 186, 187
 - its evanescence, 6.62
- Sentimentalism, 8.205
 - its doctrine, 8.188
- Separation
 - ABC-, 8.222, 224, 226, 227, 424
 - n-point, 8.222
- Sequence
 - compound proposition, 6.272
 - and dual relation, 6.366
 - material vs. logical, 6.272–73, 273n.1
 - object of logic, 6.272–73
 - particular, 6.274
 - universal, 6.274
- Series
 - completeness of, 8.395
 - concatenated, 8.143
 - continuous, 8.143, 144
 - discontinuous, 8.144
 - divergent, 6.256
 - endless, 8.141, 142, 143, 145
 - infinite, 6.251, 256
 - last moment in, 8.138, 393
 - linear, 8.142, 144
 - ordered, 8.141–42, 143
 - perfect, 8.143, 144, 395
 - regular, 8.145
 - See also* Collection; Order
- Sermo*, 2.276
 - See also* *Flatus vocis*; Nominalism; *Vox*
- Servetus, Michael, 5.30
- Servos, John W.
 - “Mathematics and the Physical Sciences,” 4.xxi
- Sesostris, 8.268
- Sessions
 - school of Ma’am 46, 8.375
- Sessions, Elizabeth R., 8.375
- Sessions, Lucy, 8.375
- Sessions, Sarah, 8.375
- Sestini, Benedict, 3.183, 388
- Set, 6.363
 - perfectly ordered, 6.360
 - plurality, diversity and formality of, 6.360–62
 - relations among objects of two sets, 3.92
 - See also* Class
- Seth, Andrew, 8.xxxiii

- Seth, James, **8.245**, 436, 437
- Set theory, **5.433**
 anti-Cantorian, **5.xx**
 discovery of, **5.xx**, xlvi, 444
- Seward, William Henry, **2.xxi**, xxii
- Sewel, William, **1.134**, 134*n*
- Sextus Empiricus, **2.140**, **8.388**
- Sexual selection, **8.190**
- Seydel, Rudolf
 Logik, **2.113**
- Sfendoni-Mentzou, Demetra, **8.396**
- Shaftesbury, Anthony Ashley Cooper, first earl of, **8.39**, 372
- Shakespeare, William, **2.134**, **4.402**, **5.30**, 34, 35, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95–103, 104–6, 350, 395, 418, **6.179**, 441, **8.265**, 268, 452, 464, 643
 pronunciation of Shakespearean vocabulary, **1.117–43**
 quoted, **6.172**, **8.400**
 Taming of the Shrew, **1.20–24**
- Shaler, Nathaniel Southgate, **2.xxxi**, xxxii, 291, 292
- Shame
 in Americans, **6.22**
 rhetorical lever, **6.xxix**, 21, 22
- Shanks, William, **8.588**
- Shannon, Claude Elwood, **5.482**
- Shapes
 three total, **1.48–49**
- Sharp, Granville, **1.127**, 131
- Sharp, John, **5.412**
- Shaw, Henry Wheeler (Josh Billings), **8.440**
- Shaw, Peter, **1.360**
- Shchukarev, Aleksandr Nikolaevich, **5.482–83**
- Shea, George, **8.488–89**
- Shedden, Thomas, **2.74**, 75, 76
- Sheet of assertion, **8.419**, 420
- Sheffer, Henry Maurice
 “A Set of Five Independent Postulates,” **4.xlvii**, 575
- Sheffer stroke, **5.434**
- Sheffield, Justus Pearl, **8.lxxv**, lxxxii
- Shelley, Percy Bysshe, **5.30**, 34, 35, **6.liii**, **8.265**, 279, 639
- Sheriff, John, **5.xliin**
- Sherman, John, **4.xxiii**, xxiv
- Sherman, Orray Taft, **4.xxiv**, xxxiii, 389–90, 586
- Sherman, William Tecumseh, **5.30**, 34, 36, **8.265**, 639
- Sherwood (Shyreswood), William of. *See* William of Sherwood (Shyreswood)
- Shields, Paul B., **8.393**
 “Charles S. Peirce on the Logic of Number,” **4.li**
- Shin, Kee Soo, **8.xxxviii**, xxxviii*n.20*
- Short, Thomas L., **6.lxxxii**, lxxxii*n.65*
 “The Short Logic,” **8.xliii**
- Shuffling
 in card game, **6.192n.1**
- Shyreswood, William of. *See* William of Sherwood (Shyreswood)
- Siddons, Sarah, **5.30**, 34, 35, **8.265**, 279, 639
- Sidgwick, Henry, **6.426**
- Sidney, Sir Philip, **1.123**, **5.30**, **6.liii**
- Sign(s), **1.174**, 289, 312, 342, 483, 485, **2.xxvii**, xxviii, xli, 23, 174, 213, 240, 331, 439, 446, 494
 addressing itself to the mind, **3.67–68**, 77, 82–83
 aid to reasoning, **8.64**, 69, 251
 ambiguous, **3.84**
 in Arabic notation, **8.63**, 64
 arbitrary, **2.330**
 of assertion, **8.64**
 association by, **2.238**
 based on causation, **3.65**, 67, 77, 80, 82
 based on conventionality, **3.65**
 based on physical or real connection, **3.67**, 76
 in Boolean algebra, **6.1–5**, 8, 50–51, 53
 cognition as, **3.76**, 77
 consistency of, **2.240–41**
 conventional, **1.468–69**, **4.249–50**, **6.457**
 correlate of, **2.223–25**
 definition of, **1.xxxii**, **5.162**, 305–6, **6.xxix**, 212
 degenerate relation of, **5.162–63**, 438
 demonstrative application of, **3.67**
 denotation of, **1.170**, **2.237**, **3.84**, 98
 description according to degrees of thirdness, **6.212–13**, 457
 distinguished from copy, **1.173**
 distinguished from symbol, **1.173**
 doctrine of, **1.xxxiii–xxxiv**
 of equivalence, **5.107**, 408
 essence of, **2.173**, 207
 for existence, **4.338**, 406–7

Sign(s) (*continued*)

external, 3.83
 feeling as, 3.39
 general, 1.355, 2.56, 446
 generality of, 3.84
 general theory of, 1.xxii, xxiii, xxvi, xxvii, xxviii–xxix, xxxii, xxxiii
 idea as, 3.68
 interpreted by another sign, 3.76–77, 83
 interpreted in thought, 2.223–24
 as kind of representation, 1.257, 323, 328
 kinds of, 3.65, 5.162–63, 243, 245, 295, 379–80
 knowledge in signs, 3.33
 laws of, 3.83, 98
 local, 6.448, 449
 of logical algebra, 5.174
 logical characters of, 3.98
 and logical notation, 4.218
 man-sign, 2.240–41
 material qualities of, 2.225, 240
 meaningless, 2.183
 meaning of, 3.65
 mental, 2.228, 475
 in *modus ponens*, 5.240
 natural, 2.319, 330, 474, 5.163
 object of, 3.67, 82–83, 84
 as an object standing for another object, 3.66–68, 82
 qualities of, 3.65, 67, 76, 77
 in reasoning, 5.224, 243
 science of, 1.304
 sign action, 6.lxxxiii
 symptom as, 3.76
 theory of, 3.xxxv
 and thing signified, 2.225
 as a thing standing for another thing, 3.76
 thinking in, 2.162, 163, 172–73, 190–91, 207–8, 213, 223
 and thirdness, 5.295, 305–6
 thought as, 3.76, 83, 95
 thought-sign, 2.223–25, 230, 232, 468, 477*n*
 three characters of, 3.66–68, 77–78, 82
 three kinds of, 2.446
 three kinds of (diagrams, indices, descriptions), 4.251
 three references of, 2.223
 translated into other signs, 3.77, 83

true, 2.439, 439*n*

truth of, 1.80

two senses of, 2.319

vinculum, 5.177

See also Addition; Claw; Connection; Copula; Equality; Ground; Icon; Inclusion; Index; Interpretant; Letter; Mark; Multiplication; Name; Negation; Notation; Representation; Significance; Signification; Streamer; Symbol(s); Token

Sign action, 1.xxxii

Signal Service of the U. S. Army, 5.xxviii

Significance

formal and material, 3.186

Significatio, 2.243*n*–44*n*

Signification, 2.474, 483

abstract, 2.114–15

connoting as signifying, 3.89

consignifying, 2.322, 326

conventional, 2.319, 330

invariable, 8.70

as kind of representation, 1.322

modes of, 2.26, 120–21, 322–26, 330–31

natural, 2.319, 330

necessary distinctions of, 2.320–21

object signified, 3.82

primary, 2.318–19

secondary, 2.318–19

of a sign, 3.67, 76, 95

of a term, 3.98

thing signified, 3.67, 68, 76

in Thomas of Erfurt, 2.322–27

its three modes, 6.212–13

See also Denotation

Sign-language

third variety of pantomime, 6.213

Sigwart, Christoph, 2.75

Similarity, 6.489

and association, 2.305–6

association by, 5.326–27, 8.127, 136, 397

and generality, 3.73

induction based on, 3.314–15, 335–36

in nature, 3.277

original appearance of, 8.387

physiological cause of sense of, 6.448

of sensations, 2.226*n*, 305–6

sense of, 6.189

and sign, 3.65

- Similarity (*continued*)
 of thoughts, 2.226
See also Likeness; Resemblance;
 Substitution, of similars
- Simile
 arithmetical, 8.75
- Simon, Thomas Collyns, 2.482
- Simple
 self simple, 6.365
- Simple conception, 1.38
- Sin
 creation of God, 8.410
- Singleness of the same
 principle of, 3.91
- Singular
 as form of number, 5.301, 306, 456
 vs. general, 2.233
 vs. individual, 2.233, 390
 as logical character or fact, 5.243, 244
- Singularity, 6.372
 geometrical definition, 6.491
- Singulars, 1.177–78, 2.277, 473
 determination of, 2.156, 180–81
 existence of, 2.181
 reality of, 2.175, 180–81
See also Generals; Particulars; Universals
- Sinister
 as term of proposition, 1.320
- “Six Lectures of Hints toward a Theory of the Universe” (sel. 3), 8.xxxv, xxxvi, 538–39
- Sixtus V, 5.30, 34, 36, 8.265
- Skepticism
 in Descartes, 3.258–59, 356–57
 vs. fallibilism, 8.xxxi*n*.12
- “Sketch of a New Philosophy” (sel. 4), 8.xxxv–xxxvi, 20 *illus.*, 539–40
- Skolem, Thoralf
 normal form, 5.xxxiii
See also Löwenheim-Skolem theorem
- Slade, Henry, 6.389, 390, 497–98
- Sleshinskii, Ivan Vladimirovich, 5.483
- Slime
 -mold, 8.xlix, 398
See also Protoplasm
- Small, Robert, 8.452, 453
- “On Small Differences of Sensation” (item 24)
 comments on, 5.xxv–xxvi
- Smalridge, George, 5.402
- Smart, Benjamin Humphrey, 1.140
- Smith, Adam, 2.485, 4.586, 5.30, 34, 37, 8.21, 265, 279, 365, 639
- Smith, Alexander, 1.23
- Smith, Benjamin Eli, 4.lvi, 5.xliii
- Smith, Edwin, 4.524, 5.10, 18, 426, 6.241, 469
- Smith, George Albert, 6.xlii, 426
- Smith, Joseph, 5.30
- Smith, Thomas, 1.119–22, 124, 125*n*, 126*n*, 129*n*, 130*n*, 134–35, 136*n*, 137*n*, 138
- Smith, William Benjamin, 6.435, 8.499–500
- Smithsonian Institution, 3.170, 4.xix–xx, 155, 5.xxi, xxiii, xxvii, xxx, xxxi, xxxvii
- Sobieski, Jan, 5.30, 34, 36, 8.265
- Socialism, logical, 2.xxviii
- Socialists, 6.378
- Social principle, 2.270–72
- Society
 interests of, 3.26
 social feeling, 3.251–52, 349
 social impulse and belief, 3.250, 254, 352
 social principle of logic, 3.284
 social sentiment and reasoning, 3.285
See also Community; Individual; Privacy
- Socinus, Laelius or Faustus, 8.277
- Sociology, 4.379, 8.21
 in classification of sciences, 8.275, 447, 448
 in plan for dictionary, 8.294
 triad in, 6.xlviii, li, 167
- Socrates, 2.134, 4.508, 5.30, 34, 37, 222, 8.265, 268
- Solar system, 3.307, 320
- Solid, 8.598
 diffusion in, 8.159, 399, 403
 elasticity of, 8.178, 403
 heating of, 8.172
 vs. liquid, 8.159–63, 167, 399, 403
 Peirce’s CD definition of, 8.403–4
 plasticity of, 8.403–4
 points in, 8.133, 142
 state of protoplasm, 8.158, 159, 161, 162, 163, 173, 174, 175–76
 virial in, 8.163, 170
- Solomon, 5.30, 8.lxv*n*.75, 265, 638, 640
 age of, 1.106
- Solon, 5.30
- Solvat ambulando*, 6.68, 429
- Some
 in logic of relatives, 2.374, 423, 428
See also Anything

- “Some Consequences of Four Incapacities,” **8.xc**,
xcvii
- Sonnini, Charles Sigibert, **8.461**, 463
- Sophism, **5.351**
of the Cretan, **8.88**, 382
Electra as form of, **5.392**, 468
See also Paradox
- Sophisms
of ancient Greeks, **1.388–89**
King of, **1.392**
- Sophists, **1.390**, **2.134**, 254, **4.508**, 509
- Sophocles, **5.30**, 34, 35, **8.265**
- Sophocles, Evangelinus Apostolides, **8.455**
- Sophy, **8.lxxxv**
- Sorel, Agnes, **5.30**
- Soul, **1.4**, 15, 41, 168–69, 491, 502, **2.125**, 181,
6.440
acts of, **1.6**
and body, **1.61**
connection with body, **8.lxxxixn.110**, 14,
15, 22, 124
connection with body explained in
hyperbolic philosophy, **6.393**
connection with body inexplicable in
Cartesianism, **6.391**
defined, **1.6**
and entelechy, **5.404**
and essence, **5.418**
faculties of, **1.249**
of man, **1.493**, 499, 501
occult power in, **8.127**, 136
in parabolic philosophy, **6.393**
phenomena of, **3.11**
representation of, **1.40**
the seat of, **1.498**
study of, **8.lxxiv**, 126
theories of, **1.492**
and thought, **3.10**, 46
and the three categories, **6.176**
three modes of action of, **8.151**
See also Mind
- South, Robert, **5.400**
- Southard, Elmer E., **8.xcvi**, **xcviii.120**
- Southey, Edith Fricker, **8.280**, 449
- Southey, Robert, **8.449**
- Soutzo, Michel C., Prince, **8.467**
- Space, **1.33**, 49, **8.xxxviii**, **xxxix**, 34, 110
absolute, **2.113**, 166, 180, 181, 199*n*, **8.468**
axioms of, **3.189–90**
a category of the It, **1.530**
cognition of, **2.196–97**
common sense conception of, **8.xxxi**
its conception a fiction, **8.xxxi**
conceptualized by common sense, **6.388**
constant of, **8.229–30**, 424–25, 426, 621,
622
contiguity in, **6.190**
continuity and tridimensionality of, **6.357**
continuous, **8.148**
continuum of, **3.69**, 103, 106
and coordination of feelings through habit,
6.393
curvature of, **8.xlvi**, lix, lxiv, lxviii, 425,
622, 623
or dependence, **1.47**
development of, **8.18**, 22
dimensions of, **1.31**
divisibility of, **8.394**
Euclidean vs. non-Euclidean, **8.108**
exclusive occupancy of, **8.167**
a formal intuition of expression, **1.39**
its fourth dimension according to Zollner,
6.389, 497
geometrical considerations on, **5.254–56**,
292–93
hyperbolic, **8.xxxii**, lix, lxviii*n.77*, 425
idea of, **8.xxxi**, xxxii, 390
imagined finitude of, **6.497**
immeasurable, **8.xxxii**, 28, 108
intuition of, **6.187**
in Kant, **5.225**, 255, 451
in Leibniz, **5.451**
limited, **8.xxxii**, lxviii*n.77*, 28, 108
in materialist view, **8.123**
measurable, **8.xxxii**, 29
and natural selection, **3.318–19**
n-dimensional, **8.89–90**, 391
Non-Euclidean, **8.xlvi**, 273, 424
objective, **6.xliv**
objectivity of, **2.471**
origin of, **6.209–10**
our construction of, **6.187**
parts of, **8.28**
perception of, **3.317–18**
according to Perrin, **5.257**
philosophy of, **2.417**, 417*n*
a priori or natural idea of, **8.25**, 109

Space (*continued*)

properties expressible in terms of, **3.165–66**

as section of higher dimensional space, **6.260–62**

sensation of, **3.33**

spatial extension of feeling, **8.147–48, 396**

spherical, **8.623**

synthesis of fragmentary spaces, **6.xliv**

and time, **1.31, 84, 156–57, 248–51, 386**

of time, **8.130**

unexplained in Spencer's evolutionism, **6.lxxvii, 398, 408–9, 500, 505**

and unity of phenomena, **2.199**

unlimited but finite, **8.xxxii, 29, 108**

See also Distance; Geometry

Space-perception, **1.158**

Spain

reciprocity treaty with, **5.144–46, 147–48**

Spalding, William, **2.74, 75, 76**

and forms of propositions, **1.483**

on judgments, **1.253**

on logic, **1.163**

Sparks, Jared, **8.199, 416, 444**

Specialism

Peirce's, **6.381, 386**

in science, **6.381–84, 385, 386, 407**

Species

adaptation of, **6.199**

evolution of, **8.102–3, 432**

transmutation of, **8.244**

Species intelligibilis, **2.472–73**

Specificity

of events, **8.120**

Specification, **2.84**

accounted for, **8.124**

continual, **8.122–24**

See also Breadth; Depth

Spectrometer, **4.xxiv**

construction of diffraction-plates, **4.60, 270–73**

and measurement of ghosts, **4.60–67, 271**

oscillation of the gitter, **4.50–51, 54–60**

ruling of diffraction-plates, **4.xxix, 50, 270–73, 274**

Rutherford's, **4.60, 240, 269–70, 271, 273, 282, 284, 578**

spectrum meter experiments, **4.xxvii, xxix**

Spectroscope

diffraction spectroscope, **4.xxx, 4, 5–6, 561**

van der Willigen's, **4.10**

Spectroscopy, **1.xx, 8.622**

Spectrum, **2.xxii–xxiii, 286–88**

of colors, **3.180, 212, 215, 384–86**

of light, **3.384–85, 386–87**

spectral analysis, **2.285–89**

Speech

philosophy of, **6.17**

Spencer, Herbert, **2.314, 4.552, 5.xli, 232, 296,**

298, 6.xxvi, 451–52, 499, 502, 505, 8.xxxiii,

liii, lxix, lxixn.81, 87, 347, 365, 381, 385, 431–

32, 433, 465, 627

articles of Spencerian confession, **6.400, 501**

his clumsy evolutionism, **6.lxxvii, 397**

Collins's Epitome, **6.lxxv, 401**

his consensus method, **6.lxxvi–lxxvii, 500, 504**

on conservation of energy, **6.lxxvii, 252, 398–99, 404–5, 427, 471–72, 501**

criticism of his mechanism, **6.lxxvii, 63, 398–99, 402–3**

criticism of his notion of scientific inquiry, **8.lii–liii, 242–43**

criticism of his theory of evolution, **8.101–2, 243–44**

essence of his philosophy, **6.402**

his evolutionism, **5.260**

on evolution of the world, **6.427**

half-evolutionist, **8.102**

on homogeneity and heterogeneity, **6.446, 501, 503**

the logicity and completeness of his system questioned, **6.396–98, 407–9**

New York Times debate, **6.lxxiv, lxxvi–lxxviii**

not evolutionist enough, **6.lxxvii, 407**

his pseudo-evolutionism, **8.593**

his reputation and method of reasoning questioned, **6.395–96, 403, 404**

his reputation defended by Messenger, **6.502**

on the Unknowable, **6.lxxvii, 398, 500**

Spencer-Brown, George, **5.459**

Spencerianism, **8.42**

Spenser, Edmund, **1.118, 5.30, 34, 35, 8.265**

Sphere, **1.469, 478**

Sphere (*continued*)

considered as quantity, 1.459–60
 in discussion of Van der Waals's equation,
 8.169–70
 geometrical, 8.93
 of a proposition, 2.183, 185
 quincuncial projection of, 4.xxix, 68–71,
 562
 of a representation, 2.4
 of a symbol, 1.498
 of a term, 1.462, 2.74
See also Extension; Symbol(s); Term(s);
 Word(s)

Spheroid

mean, 6.lxviii, 289, 291

Sphinx, 6.lxxxiv*n*.68, 165 *illus.*

in Abbot, 5.xl, xli
 in Benjamin Peirce, 5.xli
 in Emerson, 5.xlii
 its secret, 6.lxxxiv, 208, 439

Spinoza, Benedict, 2.136, 141, 5.30, 34, 37, 8.41,
265, 277, 278, 279, 448, 639

importance of, 1.103

Spirit

of an age, 8.198, 203
 in Berkeley, 2.479–80
 common, 8.415
 its deeper workings, 8.193
 esprit de corps, 8.182, 398
 in Hegel, 2.141–42
 public, 8.40, 187, 203, 401
 real entitative, 8.198
See also Mind

Spirits

belief in, 6.390
See also Ghosts

Spiritualism, 1.453, 453*n*, 6.64, 8.xxx, 14

and belief in telepathy, 6.381
 vs. elliptic, parabolic, and hyperbolic
 philosophy, 6.392–93
 late nineteenth interest in, 6.380
 no direct argument against, 6.493
 Peirce's argument against, 6.lxxix
 Peirce's skepticism about, 6.lxxviii, 493
 requiring mind-body theory, 6.391
 research in, 6.lxxx, 394, 495
 vs. scientificity, 6.381
See also Ghost-stories; Telepathy

Spirituality

injustice mother of, 8.199
 science and, 8.lxxxiv–lxxxv, 347

Spontaneity, 8.liv, 22, 101, 109, 193

absence of, 8.386
 absolute, 8.386
 explaining irregularity, 8.123
 and feeling, 8.181
 of firstness, 6.xlix, 170, 171, 181, 211
 fortuitous, 8.180
 hypothesis of chance-spontaneity, 8.xc,
 124, 181, 408
 lawless originality, 6.207
 in mental action, 8.153
 in nature, 6.63
 source of variety in universe, 8.122
 virtual variety, 6.181
See also Chance

Sporting, 8.21

of absolute lawlessness, 8.127, 390
 accidental variation, 8.102
 arbitrary, 8.109, 110
 evolution by, 8.192
 excessive, 8.103
 first element in natural selection, 6.l, 453
 increased tendency to, 6.202, 453
See also Variation

Spottiswoode, William, 4.312

Spreading

of consciousness, 8.138
 of feelings, 8.xxxvi, xxxix, lxxxiii, lxxxix,
 xc, 97, 104, 148, 151, 182, 397, 408
 of ideas, 8.lxxiv, lxxviii, lxxxii, lxxxiii, 126,
 129, 136, 149, 150–51, 153, 392, 397
 law of continuous 150, 8.408
 liquefaction in protoplasm, 8.158, 174, 175
 of motion, 8.16

Springmühl, Ferdinand, 4.105

"Spurious Proposition" (P 931), 4.585

Stackpole & Brothers, 4.86, 273, 5.8

Stading, Evelina, 8.280

Stage

egotistical, idistical, and tuistical, 1.xxix,
 113
 temporal expressions of, 1.530

Stallo, John Bernhard, 4.489, 8.165, 401

Concepts... of Modern Physics, 4.592

Stand. *See* Peirce pendulums*Standard Dictionary*, 8.xxvii, 508

Stanley, Henry Morton, 8.265, 443, 639

Star

Arided, **8.108**, 386
 artificial, **3.185**, 389–90, 392
 brightness of, **3.183–84**, 388–92, 476–77, 482–83
 color of, **3.183**, 388–92
 density of, **3.183–84**, 475–76, 477–78, 481–82, 483, 484
 distribution of, **8.lix**
 equable distribution of, **8.229**, 426
 light of, **3.476–77**, 480–81, 482–84
 magnitude of, **3.180–83**, 185, 398, 407, 418, 475–76, 477, 479
 motion of, **8.229–30**, 425, 426
 parallaxes of, **8.108**, 386
 photometer, **3.388**, 391, 392, 398–400, 405–6, 407
 Piazzì III 242, **8.108**, 386
 real, **3.185**, 388, 389–90, 398–400, 405–6
See also Astronomy

Stas, Jean Servais, **1.96**

State

and fixation of belief, **3.25–26**, 28, 250, 347–48

Statement, **2.296**, **3.86**

algebraic expression as, **6.51**
 in Boolean algebra, **8.64**, 65–66, 71
 compound, **8.65**
 connection of statements as, **6.269**
 equivalence of, **6.i**
 and fact, **6.1**, 20, 50
 pairing of, **6.268**
 probable approximate, **8.432**
 in propositional algebra, **8.252**
 simple, **1.346**
See also Judgment; Proposition

“On the State of Science in America” (item 16), **4.xxxvii**

State of things, **5.169**, 170, 331–32, 336, 371, 372, 373, 375, 382, 439, **6.1**, 8, **8.112**, 167*n.2*, 251
 actual vs. possible, **8.252**, 253
 in hyperbolic evolution, **8.386–87**
 possible, **6.50**, 424–25
See also Fact

Statistical average

defined, **6.255**

Statistical method, **8.xciii**, 190, 350

Statistics, **1.504**, **3.xxix**, **4.lxx**, **8.21**

absolute and relative frequency, **5.436–37**

and accumulation of evidence, **6.144**, 149
 application of, **5.xxiii**
 applied to research on great men, **5.426**
 applied to research on sensation, **5.124–28**, 131–34
 exactitude of average, **6.197**
 law of, **3.119**
 and natural selection, **6.450**
 in *Phantasms*, **6.106–8**
 and precision of observation, **3.131–32**
 showing development of characters, **6.201**
 statistical constancy, **6.199**, 450
 statistical judgment, **5.236n**, 241
 statistical method, **4.lv**, **lvi**, **lxx**
 statistical method in biology, **3.244**, 340
 statistical number, **3.285**
 statistical proposition, **3.329**
 statistical result and habit, **4.lxx**
 statistical result and laws of nature, **4.lxx**
 statistical syllogism, **4.423–24**
 use of, **5.xxvii**

See also Error, probable; Frequency; Law; Least squares; Mean; Probabilities; Probabilities, theory of; Probability; Sample

Staudenmaier, Franz Anton, **2.316**

Staudt, Karl Georg Christian von, **6.261**, 429
 ten-ray theorem, **6.38–39**, 45 *fig.*, 70, 257, 260–61, 423, 424

Stedman, Edmund Clarence, **6.xxxviii**, **8.661**

Steele, Richard, **8.280**

Steevens, George

Six Old Plays, **1.24**

Steiner, Jacob, **5.34**, **8.265**, 269, 444, 639

Stemeck, Robert von, **6.lxvii**

Stephen, Leslie, **8.242**, 431

Stephenson, George, **5.30**, 34, 38, **8.265**, 639

Sterne, Carus, **8.414**

Sterne, Laurence, **8.278**

Sterneck, Robert von, **8.xli**, **lxiii**

Sterret, J. Macbride, **8.373**

Stevens, Thaddeus, **5.30**

Stevens Institute, **3.xxvi**

Stevin, Simon, **6.385**, 494–95

Stewart, Arthur F., **6.xxxvn.9**

Stewart, Dugald, **2.278**

Elements of the Philosophy of the Human Mind, **2.218n**

Stewart, R. M., **6.476**

- Stickney, Albert, **8.lxiv**
 Peirce's legal counsel, **8.lxii**
- Stigler, Stephen M., **5.xxvi, xxvii**
- Stille, Werner, **8.lxviii, 499, 647**
- Stirling, James Hutchinson, **2.143**
The Secret of Hegel, **2.133**
- Stoa, **8.112, 388**
- Stock, Joseph, **8.441**
- Stock, Saint George, **6.473, 474**
Deductive Logic, **6.lxix, lxxv, 271–74**
- Stöckhardt, Julius, **1.xviii**
- Stoddard, Solomon, and Ethan Allen Andrews
A Grammar of the Latin Language, **2.157**
- Stoicism, **8.112**
- Stoics, **2.352, 353, 439, 4.483, 586**
- Stokes, George Gabriel, **2.285, 288, 4.375, 586, 6.lxi, lxxv, lxxviii, 302, 482**
 on the air affecting pendulum, **4.103–7, 148–51**
 Peirce's use of Stokes's theory, **6.lxix, 482**
 on the radius vector, **6.290**
 on viscosity of the air, **6.310**
 "On the Variation of Gravity," **4.585, 6.290**
 "On... Internal Friction," **4.564**
- Storm
 formation of, **3.167–70**
See also Atmosphere
- Story, Joseph (Judge), **3.xxxiv, 8.46, 374, 377**
- Story, William Edward, **4.xxxix, lxvi, 544, 594, 5.xxv**
- Story, William Wetmore, **8.44, 374**
- Stowe, Harriet Elizabeth Beecher, Mrs., **8.280**
- Strauss, David Friedrich, **2.132**
Life of Jesus, **1.104**
- Streamer
 notation with, **5.459, 460, 461, 464**
 notation without, **5.463**
 used as sign of illation, **5.341–43, 361–71, 373–78, 459**
See also Copula; Illation
- Strecker, Adolph, **1.96**
- Striimpell, Ludwig, **2.76**
- Stroke function, **4.xlvii, 575**
- Strong, Nathaniel, **1.123n, 132, 134n**
- Struggle for existence, **8.xcii, xciii, 189**
- Struve, Friedrich Georg Wilhelm von, **3.183, 389, 475–76**
- Struve, Otto Wilhelm von, **3.389**
- St. Thomas's Episcopal Church, **8.lxxvi, lxxviii.95, lxxvii, xcvi**
- Student
 appeal to, **8.60, 73, 75, 110, 136**
Studies in Logic (P 268), **4.xli, lviii–lix, 5.xxvii, 164n, 173n, 224n, 433, 482, 6.166**
 "Studies in Logical Algebra" (item 32), **5.xxxiv**
- Sturm, Jacques C. F., **1.212**
- Subalternation, **1.344**
- Subject, **1.xxxiii, 39, 327–29, 333, 335, 483, 508, 517**
 as affecting idea, **8.150**
 of assertion, **2.104**
 of categorical proposition, **5.337, 338**
 of cognition, **2.165**
 collective or partial, **1.144**
 in De Morgan's syllogistic, **5.353–54**
 denotation of, **3.96–97**
 denoted by index, **5.xxxv, 224, 243**
 denotes substance, **1.474**
 depth of, **3.89**
 difference from predicate, **1.288**
 of erroneous proposition, **5.223**
 and essence, **5.417**
 expresses relate and correlate, **1.481**
 as first, **6.171, 441**
 and icon, **5.243**
 indefinite, **1.518**
 indeterminate, **2.50**
 index term, **1.485**
 as I or Ego, **1.16, 60**
 nominative, **8.397**
 not separated from object in pure feeling, **6.214**
 number of in proposition, **5.162**
 object of denotation, **1.278**
 pointed at in a dialog, **5.225–26**
 of proposition, **1.505, 509, 8.86**
 of a proposition, **3.85, 87, 90, 96–97, 99**
 quantity of, **1.299**
 related to predicate, **5.235, 445**
 of representation, **2.2**
 of the rule and case, **1.370, 506**
 in scholastic logic, **5.360**
 as sign of predicate, **1.337**
 and substance, **5.235, 445**
 suggesting the predicate, **8.31**
 sundered from object, **6.185, 214**
 total, **2.26**
 true, **2.296**

- Subject (*continued*)
 universal, 1.144
See also Copula; Name; Predicate
- Subjectivism, 8.353
- Subjectivity, 8.43
 of extension of feeling, 8.148
- Submolecule, 8.159, 172, 173, 176, 177
See also Atom; Particles
- Subordination, 1.341
 in extension, 1.272
 in intension, 1.272
- Substance, 1.xxvi, 43, 54–55, 144–46, 165, 502, 516–17, 523
 vs. accident, 2.119
 beginning of all conception, 1.518
 and being, 1.473, 2.51–52, 54
 bundle of habits, 6.210
 a category of the It, 1.530
 chemical, 8.15, 67–68, 117, 173, 174
 constituted by regularities, 6.209
 defined, 1.9
 logical division of, 2.390
 manifold of, 1.474–75, 486, 520, 524, 2.51, 54
 permanent, 6.210
 physical and psychological aspects of, 8.lxxx, lxxxviii–lxxxix, xc, 158, 165, 181
 and predication, 2.49–50
 primary, 1.522
 quality of, 1.521
 something which is, 1.331
 and subject, 5.235, 445
 of subjective consciousness, 8.138
 theory of, 1.335
 thing, 6.210*n*.2
 a total quantity of intuition, 1.39
 two kinds of, 8.43, 105, 106
 universal, 8.15
See also Manifold; Matter; Present in general; What is
- Substitution
 algebraic rule of, 8.213
 of propositions, 2.26
 reasoning by, 2.446
 its rules in proofs of logical algebra, 5.363–66
 of similars, 8.30, 31, 367
 syllogism, 1.510–12
 of terms, 2.297
- Subsumption
 defined, 1.362
 of ideas, 3.90
 under a class, 3.329
- Subtraction
 logical, 2.14, 15, 21, 362, 8.75–77
See also Minus sign
- Succedence
 a category of the It, 1.530
- Success, 6.32, 33
- Succession
 of instants, 8.138
 law of, 1.221
 a temporal expression of stage, 1.38
- Suggestion, 8.154
 by association, 8.13
 associative, 8.239
 in hypothetic inference, 8.235
 inhibition of, 8.13
 modification of general object in the mind, 8.150
 ordinary, 8.236, 237
 productive of belief, 8.235
 in proposition, 8.31
 psychological, 8.236
 by sensations, 8.151
See also Association
- Sui generis*, 1.29, 8.122
- Sullivan, T. R., 1.2
- Sully, Duc de, 5.30, 34, 36, 8.265, 639
- Sully, James, 8.l*n*.41
- Sum
 of geometric segments, 6.263
 logical, 2.69, 8.255
 in logical algebra, 5.215–19, 6.1
 meaning of, 8.66
See also Addition
- “Summa Scientiae” (sel. 50), 8.lxxi, 646, 653–54
- Summum genus*, 1.324–26, 341
- Sumner, William Graham, 6.lxxvi
- Sumptions, 1.152
- Sun and Shade*
 photogravure of Peirce, 8.ii *frontispiece*
- Sunbeams
 name for Quicktown, 6.lxxii
- Supernatural
 defined, 6.103
 prejudice against, 6.xlii, 111, 145
- Superordination, 1.341

- Superstition
 religious belief as, 2.125
 and scientific knowledge, 2.125
- Supply
 and cost, 3.109
 See also Political economy
- Supply and demand, law of, 2.xxxv–xxxvi, 486, 3.174
- Suppositio*
 materialis, 2.320
 vs. *significatio*, 2.243n–44n
 simplex, 2.320
- Supposition, 1.518
 accidental, 2.121
 and breadth and depth, 2.84
 fabricator of, 6.253
 See also Assumption; Rule of false
- Surface
 color of, 8.145–46, 396
 determination of earth's, 5.116–17
 of elasticity, 5.392
 geometrical, 8.390
 in geometry, 5.254–55, 397–98, 406–7, 451
 of heterogeneous body, 8.161
 plane, 8.89
 points on, 8.142
 spherical, 8.28, 108
 -tension, 8.162, 174, 176, 407
- Surrogates
 interpreters of term, 1.465
- Survival of the fittest, 8.102
 account of process, 6.202, 453
 meaning of, 6.201
 million players, 6.199–200, 451–52, 453
 See also Adaptation to the environment
- Suter, Henry, 8.458
- Suter, John W., 8.429
- Svanberg, Lars Fredrik, 1.96
- Swan, Joseph Wilson, 8.204, 418
- Swedenborg, Emanuel, 1.145, 435, 5.xlii, 30, 34, 38, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 104–6, 8.265, 268
 on God, 2.433–34
 on philosophy and religion, 2.433
 Platonism of, 2.437
 on sanction of the heart, 2.435
- Swedenborgianism
 as materialism, 8.232
- Swift, Jonathan, 2.248–49, 5.30, 6.428, 8.lxvii.75, 265, 281, 449
 quoted, 6.65
 Gulliver's Travels, 3.46
- Swift, Morrison Isaac, 4.lxvii
- Swinburne, Algernon Charles, 8.277
- Sydenham, Thomas, 5.30, 34, 38, 390, 8.40, 265, 268, 372
- “Syllabus ... on Logic” (item 69), 4.lix–lx
- Syllogism, 1.270, 426–27, 437–38, 440, 443–45, 465, 483, 497, 2.xli, xliii, 19, 108, 120, 251, 4.264, 346, 381, 401, 460, 501–2, 584, 8.237
 all reasoning reduced to, 3.97–98
 apagogical, 4.424, 426
 Aristotelian, 2.39, 42, 93, 105, 430
 in Barbara, 4.243, 251–52, 253, 421–22, 5.171, 177
 Barbara as fundamental form of, 2.28, 42
 in Baroco and Bocardo, 4.255
 canons of, 5.350
 case in, 2.29–31, 37, 39, 41–42, 3.324–29
 cases of double subsumption, 1.384
 Case, Result, and Rule in, 4.252
 categorical, 1.375, 436, 5.336, 338, 345–46
 complex forms of, 5.340
 as conceived by Mill, 1.410
 conclusion of, 3.195, 324, 327, 329, 4.452–53
 conditional, 1.382
 and contingent proposition, 2.186–88
 and contraposition, 5.339
 its contribution to knowledge, 5.344
 and deduction, 3.86, 325, 327
 deductive, 2.44, 218–19
 definition of, 5.335–36
 demonstrative, 2.247, 248
 De Morgan on, 1.386–87, 4.170, 408, 418n
 De Morgan's syllogistic, 5.353–54
 as diagram of relations, 5.164–65
 and dialogism, 4.165, 181, 477
 vs. dilemma, 5.231, 355, 357, 358, 359
 direct, 1.441, 5.338, 343, 345, 346, 6.5
 elenchus as, 5.396
 enthymeme as, 5.404
 episyllogism, 5.409
 explaining, 2.44, 46
 explanatory, 4.423–24, 426–27
 fallacious, 4.507, 592
 figures and moods of, 5.346–49

Syllogism (*continued*)

figures of, 1.314–19, 366, 369, 372, 431–35, 506–13, 4.174, 175, 177, 178, 179–80, 426
 first figure of, 2.29–31, 38, 42, 186
 forms of, 1.379, 439, 455, 457, 508
 fundamental form of, 2.28, 42, 243–44
 Hottentot example, 8.133
 hypothetical, 5.335, 338, 345
 hypothetical, indirect, 4.175, 253, 255
 indirect, 5.339, 343, 346, 6.5–7
 and induction, 2.217–18
 and inference, 3.191–94, 195–97, 323–29
 leading principle of, 3.85–86
 linear, 1.318–19
 in logical notation, 5.166, 177
 logic of, 1.415
 on Marquand's machine, 6.67–69
 mathematical, 2.42–43
 and mathematics, 1.385–86
 and mental action, 2.xli, 249–50
 moods of, 1.182, 260–61, 298, 315–17, 319, 374, 431, 507–8, 3.191–94, 196–97, 327–28, 5.347–49, 460
 and necessary propositions, 2.186–88
 not essential logical movement, 5.107
 numerically definite, 5.115, 179*n*
 and observation of relations, 5.164, 258, 281, 344
 order of, 4.260–63
 origin of its principle, 5.335
parva logicalia, 1.379
petitio principii in, 2.247–48
 premise of, 4.452–53
 premises of, 1.316, 383, 439, 512, 3.195–97, 324, 327, 329
 and probable inference, 4.409–11
 as process, 2.214, 248–49
 and process of representation, 3.64
 product of reasoning, 8.86
 propositions of, 1.185, 259, 315, 320, 377, 508–9
 reduction of, 1.510–14, 2.32–43, 93, 247, 451–53
 reduction of figures, 3.193–94, 196–97
 reduction of moods to Barbara, 5.173
reductio per impossibile, 1.512–13
 and reference to an interpretant, 1.478
 result in, 2.29–32, 37, 3.324–28

as rudimentary reasoning, 5.344
 rule in, 2.29–31, 37, 39, 42, 3.324–29
 rule of, 5.370, 371
 and rules, 5.343–44
 rules of, 1.349, 379, 415
 rule, case, result, 1.314, 374, 431
 second figure of, 2.30–38, 93
 simple, 3.97
 and simple conversion, 5.348
 simple forms of, 5.338–39
 statistical, 4.423–24
 substituting terms in, 3.195
 syllogistic vs. non-relative logic, 5.173*n*
 teaching of, 3.3
 terms of, 1.180, 185, 258–59, 377, 446, 5.165, 338
 Theophrastean, 1.373, 376–77, 508, 2.38–43, 247, 3.194
 theory of, 4.507–8
 as theory of proposition, 2.430–31
 third figure of, 2.30–38, 93, 185, 186
 three Aristotelean figures of, 1.xxxiv–xxxv, 373, 376–78, 423, 434, 457, 507
 traditional syllogistic, 4.xliv, 487
 transitiveness of, 5.335–36, 338, 345
 of transposed quantity, 5.188–89, 190, 442, 444, 6.20, 419, 8.130, 133, 134, 139, 140, 145, 367–68, 390, 393, 394
 triangular, 1.318, 321
 trichotomies in, 5.242–43
 unity of, 1.457
 validity of, 2.215, 243–48, 252–53, 431, 4.174*n*, 299, 579
 in Venn diagrams, 5.337
 William of Shyreswood on, 1.508
See also Argument; Barbara; Baroco; Bocardo; Celarent; Conclusion; De Morgan; Explaining syllogism; Inference; Logic; *Modus ponens*; *Modus tollens*; Premise; Proposition; Reasoning
 Syllogistic, 6.254
 Sylvester, James Joseph, 4.xxxiv, xxxviii–xxxix, xl, xlii, xlvi, xlix, l, li–liv, lxvi, 211*n*, 238, 333, 557, 576, 594, 5.xxxiii, 34, 399, 434, 469, 6.472, 8.lxv*n*.76, lxx*n*.85, lxxxix*n*.111, 44, 370, 375, 445
 his controversy with Peirce, 4.liii–liv, lvi–lviii, 467–68, 472, 590–91
 quoted, 6.257–58

- Sylvester, James Joseph (*continued*)
 his theory of atomicity, 4.lvi
 “A Word on Nonions,” 4.467, 468, 590
 “Erratum,” 4.467, 590
 “Lectures on... Universal Algebra,” 4.584
 “Note,” 4.591
 “On... the New Atomic Theory,” 4.lvi
- Symbol(s), 1.xxxiii, 166, 224, 234, 258, 274–75, 286, 289, 291, 343–44, 469, 478, 496–98, 500–501, 502–3, 2.1, 2, 83, 296, 5.xxxii
 and argument, 2.58
 compound expression in ordinal geometry, 6.266, 267
 comprehension of, 1.503
 essence of, 1.500
 extension and intension of, 1.187, 340–41
 external, 2.56
 function of, 1.330–31
 genus of, 1.169
 immortal, 1.500
 kinds of, 1.477–78, 486, 496
 meaning of, 2.57
 nature of, 1.284
 and object, interpretant, ground, 1.503
 of quantifiers, 8.55
 reference of, 1.525, 2.82
 relations of, 1.173–74
 relation to objects, 1.183–85, 276–78, 280–82, 287, 289, 304, 308–9, 319, 323, 328–30, 476
 as representation, 1.257, 304, 308–9, 323, 328, 466, 468, 475–76, 480, 485, 2.56
 representation of, 1.170
 sign marked by thirdness, 6.212
 sphere of, 1.498
 of syllogism, 1.187
 symbolical conception, 5.287
 terms of, 1.347
 and thought, 1.494
 truth of, 2.57
 unartistic sign, 6.213
 used in qualitative reasoning, 5.361
See also Representation; Sign(s); Token
- Symbolistic
 objective, 1.xxxiii, 303
- Symbolizability
 of things, forms, and symbols, 1.281
- Symbolization
 ground of, 1.503
- kind of representation, 1.475
 process of, 1.469
 unity of, 1.495, 500
- Sympathy, 8.xc
 in agapasm, 8.xciv, 195, 415
 as continuity of mind, 8.xciv, 196
 with neighbors, 8.189, 196, 415
 sharpening sensibility, 6.118
- Symptom
 as sign, 3.76
- Syncategorem, 8.86
- Synechism, 8.xcii, xcvi, 136, 156, 186, 404
 and agapasm, 8.xciv
 and continuity, 8.lxxxii
 its etymology, 8.392
 its explanatory power, 8.157
 in Hegelianism, 8.195
 proof of, 8.203
 talk on, 8.lxxxii
- Synonyms*, 1.17–19
- Synonymy
 defined by depth and breadth, 3.101
 logical, 3.65
 of names, 3.100
 and rhetoric, 3.101
See also Interpretation; Meaning; Translation
- “Synopsis, or Digest, of Human Knowledge,” 8.653
- Syntheme, 5.182
- Synthesis, 2.147–48
 consciousness of, 6.186
 first real, 6.449
 following analysis, 6.449
 genuine, 6.449
 highest kind of, 6.187
 as logical conception, 5.246
 as mental faculty, 5.246
 modes of, 6.448
 physiological explanation of, 6.449
 in relation of reason, 6.442
 and thirdness, 5.239
 and triple character, 5.244
See also Dialectic
- System
 architectonic, 5.xxxv–xxxvi, xxxvii, xxxix, xlv
 Cantor’s perfect, 8.395
 concatenated, 8.395

System (*continued*)

- of geometrical entities, 8.94–95, 99–100
- house-building metaphor, 8.84–85, 98–99, 381
- infinite, 8.394
- of logarithms, 8.48, 51, 54
- meanings of the word, 8.168, 168*n*.5
- of numbers, 5.283–84
- of numeration, 8.2, 53
- of particles, 8.120–22, 123, 399
- philosophical, 8.xxxii, 18, 84–85, 98–99, 109, 165, 389
- solar, 8.229, 426
- super-infinite, 8.394
- sympathetic, 8.14
- transcendental, 8.293
- unity and comprehension of, 1.484
- world as, 8.110

T

Taber, Henry, 4.lxi, lxvi, 8.37, 370–71

his esteem for Peirce, 5.xxv

Table

- of antilogarithms, 8.48, 51, 52
- of elements, 8.284, 450–51
- scale-, 8.48–54, 378

Tabula rasa, 6.182

Tacitus, 5.30

Taillandier, René, 2.316

Taine, Hippolyte-Adolphe, 2.132

Tait, Peter Guthrie, 2.xxxiii, 6.385, 494

on entropy, 5.405

Talbot, William Henry Fox, 2.285

Talleyrand-Périgord, Charles Maurice de, 5.30,

34, 36, 8.265, 280

Talma, François Joseph, 5.30, 34, 35, 77, 79, 81,

83, 85, 87, 89, 91, 93, 95–103, 104–6, 8.265

Tamerlane. *See* Timour

Tancred, 5.30

Tandon, J. E., 1.131

Tangent

in geometry of plane curves, 6.372–76, 491

Tarski, Alfred, 4.xlvii, 5.xxxiii

“On the Calculus of Relations,” 4.xlvii

Tarski-Bernays axiomatic system, 5.xxxiii

Tartaretus, Petrus

Expositio in summulas Petri Hispani,

2.74*n*, 420*n*

Tasso, Torquato, 5.30

Taurinus, Franz Adolph, 6.454

Taylor, Brook(e), 8.92*n*.2, 382

theorem of, 2.406, 3.200

Taylor, Jeremy, 5.400

Teaching

benefit of practical exercises in, 6.422

critique of American colleges, 6.422

of morals, 6.32

See also Correspondence course; Learning;

Pedagogy

Tecumseh, 5.30

Teleology

developmental in personality, 8.lxxxiv, 155

and God’s existence, 5.229

See also End

Telepathy, 5.xxvi, 6.61, 493, 8.156, 183, 398, 409

antecedent probability of, 6.110

cumulation of favorable instances, 6.144,

149

finding an explanation more probable than

-, 6.109–11, 112–13

its impracticability, 6.381

its infrequency, 6.111

lack of favorable evidence for, 6.lxxix, 81,

110–11

method of proving, 6.110

phenomena of, 5.135

result of faint sensations, 6.xxxiv

spontaneous, 6.74, 101, 430

See also Ghosts; Spiritualism

Telltale row, 8.224, 226, 227

Temperature

absolute, 8.169, 405

its determination in pendulum

observation, 6.459–60

effect on reversible pendulum, 5.319–22

its effect on the virial, 8.171

See also Gravity determinations

Tenacity

method of, 3.250–54, 256, 272, 347–49,

351–52, 354, 371

See also Individual

Tendency

to adapt, 8.103

to analogous thinking, 8.414

to change or not in Darwinian evolution,

8.102

to do otherwise than previously, 8.387

Tendency (*continued*)

- fixed by habit, 6.1, 193, 393
 - to generalization, 6.xliv, 208, 393, 8.xxxix, 97, 104, 110, 124, 387
 - to growth, 8.101
 - of ideas to bring along other ideas, 8.lxxxiii, 148, 392
 - of ideas to develop, 8.397
 - of ideas to get connected, 8.127, 128
 - vs. mechanical law, 6.191, 449
 - to obey rules, 8.387
 - to take habits, 6.208, 8.lxxxix, xc, 110, 179, 181, 182, 387
 - towards uniformity, 8.127
 - toward uniformity, 6.208
 - to truth, 8.95
- Tennyson, Alfred, Lord, 1.20, 23, 5.30, 34, 35, 8.265, 278, 279, 443, 639
- Ten-ray theorem, 6.38–39, 45 *fig.*, 70, 257, 260–61, 423, 424
- Tensor
- logical interpretation of, 2.415
- Term(s), 2.111, 174, 318, 431
- absolute, 2.xxxiii, 110, 113, 359, 365, 366, 372–74, 376, 409, 425, 3.115, 116, 201, 4.328, 329–30, 5.213
 - abstract, 2.145–46, 148, 151, 327–29, 3.99
 - added to factor, 6.5
 - in addition, 5.383–84
 - additive, 6.5, 8.67
 - affirmative, 2.80, 82, 3.101
 - arithmetical, 3.200
 - breadth of, 3.88–89, 98–102
 - categorematic, 2.327, 330
 - character of, 1.335
 - in collective sense, 5.185–86
 - comprehension of, 1.272, 464, 467, 2.8, 74
 - conceived, 2.318–20
 - concrete, 2.145–46, 148, 151, 327–29, 3.99
 - conjunctive, 2.xlviii, 365, 370, 378, 425–28
 - conjunctive, 3.87–88, 200
 - connotation of, 3.89
 - content of, 1.462
 - contraposing, 1.507, 509
 - denotation of, 3.85–87, 89, 98, 99, 4.210–11, 265
 - depth of, 3.88–89, 98–102
 - determinate, 2.80, 390
 - direct reference of, 1.478
 - disjunctive, 3.87–88
 - elementary, 3.88
 - essence of, 3.37, 100
 - extension of, 1.272, 464, 2.7–8, 74
 - of first intention, 3.98
 - general, 2.81, 145–46, 180, 181, 233, 268, 389, 409, 3.88, 94, 98, 4.195, 249, 336, 338, 402, 403, 493, 5.224
 - as general description, 5.245
 - grammatical distinctions of, 2.320–22
 - implication of, 1.465–67
 - individual, 2.389, 391–92, 3.84–85, 88, 93–94, 4.194, 196, 203
 - interpretants of, 1.465, 467
 - kinds of, 1.279, 288, 291, 460–61, 468–70, 479–85
 - logical, 2.xxxiii, 364–65, 474, 3.64, 200–201
 - as logical form, 5.239, 295
 - logically indivisible, 2.389–91
 - marks of, 2.74–75
 - mental, 2.320, 327, 330, 468
 - metaphysical, 1.19
 - middle, 8.237
 - middle and major, 1.350
 - negative, 2.7, 80, 82, 83
 - negative and positive, 3.101
 - non-relative, 4.181, 182 n , 188, 195, 210, 343, 347, 391–92, 460
 - object of, 1.480
 - particular, 2.7–8, 81, 82, 83
 - part of a symbol, 1.347
 - product of simple apprehension, 8.86
 - of propositions, 1.505
 - relative, 2.xlviii, 72, 88–89, 110, 245, 359, 365, 366, 372–74, 417, 423, 425, 3.93–95, 114–16, 192, 201, 4.23, 195, 205, 210, 239, 299, 329–30, 334, 336, 338, 342–44, 347, 381, 383, 453–54, 457, 479, 5.186, 243, 353
 - represent quales, 1.478, 486
 - of second intention, 3.98, 99, 101, 4.182, 328, 5.197–98, 213
 - significant, 2.296–97
 - simple, 4.194, 196, 203
 - sphere of, 1.462–63
 - spoken, 2.318–19, 327
 - subordination of, 1.300
 - substituting terms in syllogism, 3.195
 - of syllogism, 5.165, 338, 350

Term(s) (*continued*)

- of syllogisms, **1.176**, 349, 370, 377–78, 380, 446
- as a symbol, **2.57–58**
- symbols of a class, **1.258**
- a symbol which refers to a ground, **1.477–78**
- syncategorematic, **2.175**, 208, 327, 329–30, 474, **5.338**
- three kinds of, **6.166**
- transposing, **1.507**, 509
- universal, **2.8**, 82, 162
- vocal, **2.320**, 330
- written, **2.318–20**, 330
- See also* Copula; Correlate; Name; Proposition; Relate; Relative(s)
- Terminology
 - ethics of, **8.43**
- Terminus, **2.326–27**
- Testimony
 - of ancient authors, **8.350**
 - documents vs. monuments, **8.350**, 351
 - eighteen validity conditions not met in *Phantasms*, **6.74–80**, 112–13, 434
 - forgetfulness in, **6.104–5**
 - as foundation, **8.23**
 - impressive when unexceptionable, **6.116**
 - inaccuracy of, **6.113**, 128
 - its rhetoric, **6.115**
 - sailor's yam, **6.137**, 151
 - taking of it not science's role, **6.495**
 - as weak evidence, **6.63**
 - See also* Anxiety; Evidence; Explanation
- Tetens, Johannes Nickolaus, **5.449**, **6.183**, 446–46, **8.385**
- Tetrad
 - set of plurality four, **6.360**, 361
- Textbooks
 - in geometry, **8.xliii**, xlv
 - in logic, **8.xxxn.10**, xxxi, xlvii
 - in mathematics, **8.xxxi**, xliii
 - See also under* Logic
- Thalén, Tobias Robert, **2.288**
- Thales of Miletus, **5.30**, 34, 49, **6.181**, 444, 445, 446, 453, 454, 505, **8.88**, 202, 265
 - on primal matter, **5.295**, 296
- Theism, **2.123**, 125, 126–27, 128, **5.xlvi**, 260, 294
 - scientific, **5.xl**, 280, 285
 - See also* God; Religion
- Themistocles, **5.30**, 34, 36, **8.266**
- Theobald, Lewis, **1.21**
- Theodoric, **5.30**
- Theodosius I, **5.30**, 34, 36, **8.266**
- Theology, **4.489**, **6.497**
 - Christian, **6.174n.1**
 - in classification of sciences, **8.275**
 - on existence of God, **3.307**
 - and logic, **1.406**
 - its neglect of thirdness, **6.180**
 - vs. science, **8.lxxxiv**, 34
 - triad in, **6.xlviii**, li, 167, 440
 - See also* Church; New Testament; Old Testament; Transubstantiation
- Theophilus, **8.199**, 416
- Theophrastean syllogism, **1.377**, 508
- Theophrastus, **6.445**
 - See also* Syllogism, Theophrastean
- Theorem, **8.xxxviii–xxxix**, xlviii, 37
 - binomial — for integral powers, **8.140–41**, 394
 - a curious one in geometry, **8.60–61**
 - of Desargues, **6.38–39**, 423, 424
 - Fermat's little theorem, **6.39–40**, 423
 - proofs from given premises, **8.55**
- Theory, **4.548**
 - anacastic development of, **8.415**
 - bias directed to newxlii, **6.111**
 - construction of, **6.188**, 248, **8.23**, 85, 99, 110, 346, 380
 - deduced from another theory, **3.335**
 - vs. description in science, **6.246–47**
 - of evolution, **3.xxii**, xxiii
 - vs. experience, **5.232**
 - experimental verification of, **4.450**
 - vs. fact, **8.352**
 - factual confirmation of, **8.346**
 - and hypothesis, **3.334–35**
 - Kepler's "vicarious —," **8.290**
 - motive for replacement of, **8.84**, 98
 - mystical, **3.321**
 - non-explaining, **8.87**
 - number of possible theories, **8.101**
 - of numbers, **8.55–56**
 - vs. observation, **6.204**, **8.89**
 - of physics, **3.336**
 - and practice, **4.154**, 379, 509, **5.327**
 - vs. practice, **8.lxxxviii**, 356
 - purpose of, **8.23**, 105

Theory (*continued*)

- qualitative vs. quantitative, 5.306
- scientific, 4.382, 547
- of sign, 3.xxxv
- simple or complicated, 8.94
- simplicity of true 99-100, 8.383
- theoretical science, 3.334, 338
- See also* Axiom; Explanation; Inquiry; Law; Method
- “On the Theory of Errors of Observation” (P 77), 4.81
- “A Theory of Probable Inference” (P 268b), 4.lviii–lix, 588, 6.166, 439
- Thermodynamics, 8.293
 - second law of, 8.118
- Thermotics, 8.293
 - in classification of sciences, 8.275
- “Thessalian Topography
A Traveller’s Tale,” 8.658
- Thessaly, map of Greece, 8.298 *map*
- Thessaly, tale of, 8.lxv, lxxi–lxxii, lxxiin.87, lxxiin.89, lxxiin.90, lxxiii, lxxvi, lxxix, lxxx, 296–340, 298 *caption*, 526–27
 - Austrian ending, 8.334–39, 657, 661, 662
 - its esthetic purpose, 8.lxxiii, 453–54
 - textual genealogy, 8.655–63
 - two prefaces, 8.453–54, 661
 - See also* Karolos Kalerges
- Thiers, Louis Adolphe, 5.30, 36, 8.277
- Thing, 1.289, 2.8, 109, 149, 277, 304, 480
 - defined, 1.257, 274–75, 303
 - external, 2.167, 172, 469, 3.49
 - fictitious, 3.99
 - finite, 2.152–53, 158
 - independent of mind, 2.469–70
 - independent of thought, 3.56
 - induction related to, 1.290
 - and legitimate hypothesis, 1.307
 - material, 3.319
 - object in relation, 8.55
 - as an object of limited universe, 3.117
 - particular, 2.153–54
 - real, 2.104, 439, 470, 3.27, 44–45, 56–57, 99, 254, 271–72, 351–52, 370
 - signified, 2.225, 237, 439, 3.67, 68, 76
 - that which a sign stands for, 1.312
 - thing-ness, 8.181
 - as third, 6.441
 - as thought, 1.61

thought of, 1.40, 61

See also Object; State of things

- Thing-in-itself, 2.191, 277, 471
 - as the ideal first, 2.238–39
 - impossibility of, 2.469–70
 - as the incognizable, 2.239
 - Kantian, 8.137
 - vs. object, 2.174–75

Thinkables

two classes of, 1.39

Thinking

- and accurate speech, 6.17
- analogous, 8.414
- art of, 6.10, 24–25, 8.xxix, 356
- aural vs. visual, 8.19, 24
- as experimentation, 8.17
- free, 8.34, 193, 370
- fruitful, 8.17, 19
- machine, 8.201 (*see also* Logical machine)
- mathematical, 6.18
- and morals, 6.32
- performed by machine, 6.65
- its purpose, 6.206
- secret of art of reasoning, 8.6
- of things as together, 6.186
- in time, 8.80
- unsound, 8.24
- See also* Reasoning; Thought
- “Of Thinking as Cerabration,” 8.594
- “Of Thinking as Cerebration” (items 7 and 8), 4.xlvi
- Third, 2.55, 365
 - notion of, 1.486
 - See also* Category; Representation; Second; Three
- Third (Thirdness), 8.xcv, 17, 21, 109, 110
 - accidental, 5.301, 456, 6.178, 186
 - associating, 5.456, 6.443
 - and cogito, 5.240
 - and combination, 6.174–75
 - comparative, 5.301
 - of comparison, 6.179
 - definition of, 5.299, 304, 6.170
 - degeneracy of, 6.178–79, 211, 212, 443, 457
 - degenerate, 5.252–53
 - description of, 5.239, 295, 300–301, 305–6
 - essence of mind, 6.449
 - evidence of its reality, 6.172
 - genie example, 6.178, 443

- Third (Thirdness) (*continued*)
 genuine, 6.178, 179, 211–12, 443, 444
 and habittaking, 5.293
 instrument as, 6.441
 intermediate, 6.179, 187
 intermediate state of the universe, 6.li, 174
 mediating, 8.86, 109
 mediating between first and second, 6.173
 medium, 6.186
 mood or tone of thought, 6.169
 in nature, 6.443
 object of thinking, 6.173
 precission of, 5.238, 446
 processes as, 6.441
 promoted by Hegel, 6.180
 real, 6.178
 reality of, 5.xlv
 reason for its introduction, 6.167
 reflective, 5.456, 6.443, 444
 its relativity, 6.173–74
 sign as, 6.212
 and synthetical consciousness, 6.186
 things as, 6.441
 its virtue absent in mechanicism, 6.191
See also Categories; Category; Conception;
 Degeneracy; First (Firstness); Mediation;
 Plural; Reduction thesis; Second
 (Secondness); Sign(s); Triad
- Thirion, Julien, 6.liii
- Thodores. *See* Maurokordato, Thodores
- Thölde, Johann, 8.419
- Thomas (apostle), St., 8.lxxvi
- Thomas, James Carey, 4.lxv
- Thomas à Becket, 5.26, 32, 36, 8.258, 441
- Thomas à Kempis, 5.28, 33, 38, 8.263, 279, 639
- Thomas Aquinas, St., 1.160, 243, 2.109, 277, 464,
 465, 5.26, 27, 32, 37, 198, 347, 400, 470, 6.387,
 387n.1, 496, 8.203, 258, 279, 418, 441, 448
Summa logices, 2.74n, 121
Summa totius theologiae, 2.106
- Thomas of Erfurt
 on modes of being, 2.324–25
 on modes of signifying, 2.322–27
 on modes of understanding, 2.324–26
 on sign, 2.326–27
 on word, 2.326–27
Grammatica speculativa, 2.321
See also Duns Scotus
- Thompson, Benjamin (Count Rumford), 4.152,
 153, 576, 5.30, 34, 37, 6.177, 385, 494, 8.165,
 265, 268, 279, 402, 639
- Thompson, Henry, Sir, 8.409–10
- Thomson, William (1819–1890), 2.76, 78, 5.402,
 6.248, 470, 8.159, 161, 165, 204, 204n.5, 280,
 399, 401
 on judgments, 1.253
 on propositions, 1.483
*An Outline of the Necessary Laws of
 Thought*, 2.78n, 3.4
- Thomson, William (1824–1907), 2.285
- Thoreau, Henry David, 8.392
- Thorn, Frank M., 4.xxi, lxviii, 5.xxi, xxix, xxxvii,
 xxxviii, 457, 8.xxvii, xxviii, xlin.25, lii, lxii
- Thorwaldsen, Bertel, 5.30
- Thou. *See* I, It, Thou
- Thought, 1.60–69, 152, 154, 2.163, 179, 224, 225,
 227, 471
 absolutely simple, 2.226–27
 abstract, 6.xxx
 act and object of thinking, 3.46, 58
 as action, 3.263, 362
 act of, 1.181
 addressing itself to another thought, 3.76–
 77
 American, 8.231, 437
 analytic, 8.353
 art of thinking, 4.378, 400–401, 509–10,
 586
 association of thoughts, 3.40
 and attention, 6.496
 and being, 2.137, 175
 binding together of, 5.458
 category of, 2.135
 as category of consciousness, 5.246
 causally connected to a thing, 3.78
 clear, 3.264, 362
 compounding of, 1.83
 continuity of, 8.203
 crystallized, 8.97, 105
 determined by another thought, 2.207–8,
 230–31, 3.29, 36, 40, 74–75, 105, 203
 determined by final cause, 3.8
 as development of belief, 4.164
 economy of, 5.228, 8.33–34
 as an element of cognition, 3.75
 as an element of consciousness, 3.262–63,
 361
 elements of, 1.42, 45–46, 81

Thought (*continued*)

evolution of, 8.xcv, 128
 existence independent of, 5.286, 287
 as external sign, 2.241
 as feeling with meaning, 3.38
 fiction dependent on, 3.49, 58, 78, 271, 370
 and final opinion, 3.29
 formula of, 1.85
 genus of, 1.165
 habitual connection of thoughts, 3.75
 habitual element of, 3.337
 Hegel's stages of, 5.230, 356–57
 immediately present to mind, 2.468
 as including volition, 5.222
 an index, 1.495
 individual, 8.41
 individual element of, 3.55–56
 inductive, 8.201*n*.4, 417
 interpreted in another thought, 2.173, 207–8
 law of, 8.23
 laws of, 4.378, 510, 586
 matter of, 3.74
 as mediation, 2.134
 men of, 8.lxvi, 38
 as mental event, 2.225–26
 method and precept of, 6.187
 and natural selection, 3.245, 341–42
 natural tendency of, 3.255, 353
 and nature, 8.17, 19, 23
 new, 8.194
 new elements of, 3.102, 105
 object of, 3.10, 34, 51, 54, 58, 60, 79–80, 235, 246, 264, 343, 362
 objects of, 1.38
 obscure, 3.264, 362–63
 its only function, 6.456
a posteriori, 1.64
a priori, 1.64
 prescinded from intuition and mind, 1.306, 311
 producing belief, 3.261, 263, 359, 361
 producing habit, 3.265, 363
 pure, 2.138–39
 rationality of, 3.108
 real distinctions of, 3.265, 364
 and reality, 2.104, 470
 reality independent of, 3.28–29, 30–32, 49, 55–56, 58, 60, 78, 271–72, 274, 370, 373

and relations, 5.280
 religious limits of, 1.37–40
 representation as, 3.46
 representation of the idea, 1.40
 representative function of, 2.227
 resemblance of thoughts, 3.43, 74–75
 right and wrong method of thinking, 3.72
 sensational element of, 3.235
 sensuous element of, 3.337
 as sign, 2.173, 439, 3.76, 83, 95
 as silent speech, 2.172, 182
 and soul, 3.10, 46
 speculative, 4.43
 stream of, 3.34
 and symbol, 1.494
 symbol of fact, 1.166
 temporal succession of thoughts, 3.74–75
 thinking as cerebration, 4.xlvi, li, 38, 42, 45, 163–64, 476
 thinking in signs, 2.162, 163, 172–73, 190–91, 207–8, 213, 223
 thinking of itself, 3.10
 three elements of, 2.227
 three modes of its development, 8.196–205, 414–15
 train of, 5.326, 8.ln.42, lxxxiii, 13
 unity of, 4.552
 universe of, 6.474
 volitional element of, 3.338
See also Cognition; Intellect; Mind; Opinion; Representation; Sign(s); Thinking

Thought-of, 1.40, 91, 152, 154
 as distinct from potentially thought, 1.60
 mediately known, 1.62
 the nature of the, 1.81
 power it exerts on the soul, 1.61
 as related to externality, 1.82–83
 Thought-sign, 2.223–25, 230, 232, 468, 477*n*
 Thought-transference. *See* Telepathy
Thousand and One Nights, 6.443
 Thrasymachus
 Royce's straw man, 5.xxxv, 222, 223, 226, 228, 445, 446
 Three, 2.104, 231
 higher numbers formed by combinations of, 6.xlix, 174–75
 its philosophical prominence, 6.179, 440
 rule of, 8.52, 378

Three (*continued*)

See also Category; Representation; Second;

Third

Threeness, 6.172

Threshold. See *Unterschiedsschwelle*

Thucydides, 5.30, 34, 38, 8.266, 369

Tiede, Christian Friedrich

his clock, 6.342, 485

Tillotson, John

The Works, 3.308, 310

Time, 1.44, 8.110

absolute, 2.113, 129, 199*n*, 209, 471, 8.468

analysis of, 8.lxxv, 146–47

or arbitrariness, 1.47

becomes shape, 1.49

its calculus for transit of stars, 5.309–16,
457

a category of the It, 1.530

and causation, 8.15–16

and consciousness of a process, 6.186

consciousness through, 8.137–38, 146, 392

contiguity in, 6.190

continuity of, 8.lxxv, 134, 147

continuum of, 3.69–71, 103–4, 106

and coordination of feelings through habit,
6.393

development of, 8.18, 22, 387

and development of universe, 8.107, 387

equation of, 5.411

equinoctial, 5.412

finite, 8.137, 149, 154, 238

and firstness, 5.304

flow of, 8.lxxiv, 16, 128, 146–47

a formal intuition of expression, 1.39

form of change, 8.147

and genuine synthesis, 6.449

and gravitation, 3.164–65

hyperbolic continuum, 8.lxxv

idea of, 8.390

idea of and natural selection, 3.318–19

immediate consciousness of, 8.79, 80, 137–
38

and individuals, 2.180, 181

infinite divisibility of, 8.lxxv, 130, 134

infinitesimal interval of, 8.lxxxii, 137–38,
154, 396

intuition of, 6.187

involved in the law of mind, 8.128

irreversibility of, 8.lxxv

in Kant, 5.225

in materialist view, 8.123

momentariness of idea, 3.63

natural idea of, 8.lxxv, 134

necessary form of fact, 1.92

not perfectly continuous, 6.209

objective, 6.xliv

its observation in pendulum work, 6.460–
61

order of, 5.307

origin of, 6.209

our construction of, 6.187

perception of, 3.317–18, 8.lxxxii–lxxxiii, 80

perfect, 8.387

according to Perrin, 5.257

and personal equation, 5.411

and personality, 8.154–55

properties expressible in terms of, 3.165–
66

properties of, 3.202, 204, 8.lxxv, 130, 134,
390

as regularity among existences, 5.335

regularity in relations of feelings, 8.387

regularity of its flow, 6.209

and singulars, 2.181

synthesis of fragmentary times, 6.xliv

and synthetic consciousness, 5.246

system among relations, 8.130

temporality of consciousness, 3.73–76,
103–5

temporality of image, 3.71

temporal succession of ideas, 3.68–71, 72–
75, 102, 103–5, 106

temporal succession of thoughts, 3.74–75

tenseless copula, 3.96

and thirdness, 5.295

thought in, 2.207–8

its transitiveness, 5.335

unexplained in Spencer's evolutionism,
6.lxxvii, 397, 500

and unity of phenomena, 2.199

See also Duration; Future; Instant;

Moment; Past; Present; Space, and time

Timour, 5.30, 34, 36, 8.266, 268, 639

Tintoretto, 5.30, 34, 8.266, 443, 638, 639, 640

Titchener, E. B., 5.xxvi

Titian, 5.30, 34, 35, 8.266, 279, 443, 639, 640

Titius, Johann Daniel, 4.589

Todd, John P., 8.374

- Todd, Susanna Hill, **8.44**, 374
- Token, **5.xxxii**, 295, 438
 in algebraic notation, **5.164**, 165, 169, 174, 185–86, 188
 definition of, **5.162**, 379
 index of, **5.165**, 176, 185
 of second intention, **5.176**, 185
 as sign of generality, **5.163–64**
 and universe of marks, **5.198**
See also Notation; Sign(s)
- Toleration
 in philosophy, **8.lxxxv**
- Tolman, A. H., **4.lix**
- Tolstoy, Leo, **8.281**
- Tone
 mental, **5.294**
- Torture
 Peirce's stance against, **8.lxxviii**, 343, 464
- Totality, **1.4**, 39, 48
 a category of the It, **1.530**
 vs. plurality, **5.236n**
- Tourgueneff. *See* Turgenev, Ivan Sergeevich
- Toussaint L'Ouverture, François Dominique, **2.224**, **5.30**, 34, 36, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95–103, 104–6, **8.266**
- Trajan, **5.30**
- Transaction
 of learning, **8.194**
- Transcendentalism
 abuse of psychology, **1.65**
 from Concord, **8.135**, 392
 uselessness and refutation of, **1.72–79**
See also Hamilton, William
- Transference, **8.52–53**
See also Scale-table
- Transformation, **8.xlviii**
 algebraic rules of, **8.65n.2**, **72n.2**
- Transitivity (Transitiveness), **6.155**, 437, **8.lxxv**
 of “as small as” relation, **5.210**
 of copula, **5.336**
 of copula (third icon), **5.171–72**
 definition of, **5.335**
 of illative relation, **5.335**, 337–38, 342
 of law of mind, **8.lxxiv**, 128
 principle of copula, **8.72**
 in reasoning machine, **6.69**
 of relation L, **8.131**
 of relations, **6.158**
 of syllogism, **5.335–36**
 of temporal relation, **8.130**
 of time, **5.335**
- Transitivity. *See* Transitiveness
- Translation
 meaning as translatability, **3.38**
 Peirce's views on, **8.lxxixn.99**
 of sign into sign, **3.77**, 83
See also Interpretation
- Transposition, **2.33**, 40, 48, **3.196–97**
 of antecedents (second icon), **5.170–71**, 172, 440
 in equations, **8.58**, 59
 rule of, **1.226**
 of terms of propositions, **1.510**
See also Syllogism
- Transubstantiation
 doctrine of, **3.265–66**, 364
- Treadwell, Daniel, **8.46**, 377
- Treasury Department. *See* United States Department of the Treasury
- Trees
 forking, **8.xlviii–xlix**, **xlixn.39**, 225 *illus.*, 424
See also Cayley, Arthur
- Trendelenburg, Friedrich Adolph, **2.75**, 276, 279, 441, **4.487**
Elementa Logices Aristoteleae, **2.106**, 157
- Tresca, Henri Edouard, **4.151**, 566
 “A Report,” **4.566**
- Triad
 chemical, **6.442**
 example of giving, **6.174–75**
 example of selling, **6.175**
 and higher numbers, **6.xlix**
 in logic, **5.242–45**, 295
 not analyzable into dyads, **6.175**
 order of terms in, **5.307**
 its philosophical importance, **6.179**
 preponderance of, **5.303**
 in the sciences, **6.166–67**
 set of plurality three, **6.360**, 361
See also Category; Three; Trichotomy; Valency
- Trial and error. *See* Rule of false
- Triangle, **6.265**, 408–9, **8.xlviii**, 90–91 *illus.*
 four-sided, **1.230**
 icon of, **6.259**
 as an illustration of determination of cognitions, **2.178–79**, 210–11

Triangle (*continued*)

- Pythagorean, **8.xliii**, 47, 546
- right-angled, **8.24**, 47, 546
- spherical, **8.272**, 386
- sum of its angles, **8.88–89**, 92, 93, 108, 272, 382, 386, 446
- Triantaphyllis, Perikles, **8.302**, 303, 304, 457
- Trichotomic, **5.294**, **6.xlix**, 211
- Trichotomy
 - first chapter in “A Guess at the Riddle,” **6.xlix**, 168–80
 - See also* Triad
- Trick of Chinese rings, **2.195–96**
- Trinitarianism, **1.xxx**, xxxii
- Trinity, **1.xxx**
- Trivium, **6.30**
 - semiotic, **1.xxxiii**
- Troost, Louis Joseph, **1.96**
- Troyan, Constant, **5.30**
- Truth, **1.4**, 7, 64, 79–80, 170, 471, **2.xli**, 4, 5, 100, 212
 - absolute, **2.81**, 113, 175, **3.102**, **4.241**
 - of actions, **4.544**, 546
 - as agreement of meaning and reality, **2.439–40**
 - as agreement of representation and object, **2.99–100**
 - alêtheia, **8.114**, 388
 - as algebraic value, **5.xxvii**, xxxii, 112–14, 166–67, 175–76, 382, 435, 439
 - approximate, **8.88**, 113, 119
 - its area in diagram, **5.332**, 461
 - of belief, **3.57**, 248, 272, 345, 370–73
 - of cognition, **3.75**
 - of concept, **3.56**
 - concerning signs, **3.83**
 - of conclusion, **3.27**, 244, 245, 341, 342, 351
 - of conclusion of argument, **2.294–95**
 - conformity of statement with fact, **6.20**
 - constituted by consent, **2.470**
 - as correspondence, **3.56**, 282
 - degree of — of propositions, **8.xxx**, 71
 - Descartes on, **3.258–59**, 273, 356–57, 371
 - descriptive vs. metric conception of, **5.166**
 - and doubt, **3.14–15**
 - dubiously metaphysical, **8.lxx**
 - and error, **5.416**
 - eternal verities, **8.347**, 465
 - ethical, **5.420**
 - evident, **4.246**
 - and experience, **6.203**
 - of fact, **3.203**
 - vs. falsity, **5.307**
 - as final opinion, **3.273**, 372–73
 - of general formula, **5.112**
 - of hypothesis, **3.278**
 - of hypothetical proposition, **5.169–70**, 332, 337
 - of idea, **3.276**
 - idealistic doctrine of, **2.440**
 - inductive approximation of, **2.268**
 - and inference, **2.162**, 182
 - infinity sign as algebraical symbol of, **5.366–67**, 463
 - and information, **2.182**, 183
 - inner well of, **8.94**
 - instinct for, **6.455**
 - investigation of, **4.78**, 400
 - of judgment, **3.78**
 - of knowledge, **3.57**
 - and logic, **2.348**, 350, **4.xxxvii**
 - logical, **3.100**
 - love of, **8.271**
 - of mathematics, **4.299**, 579
 - and methods, **5.324**
 - necessary, **5.440**
 - never fully exact, **6.204**, 205
 - not exact, **8.25–26**
 - as the object of final opinion, **3.79**
 - as the object of reasoning, **2.357**
 - as object of reasoning, **5.329**
 - and observation, **4.246**, **6.38**, 355
 - as one, **6.444**
 - one drop in an ocean, **6.250**
 - one true conclusion, **3.254**, 351
 - of opinion, **3.56**, 273, 372–73
 - and ordinary experience, **6.387**
 - paradox of, **2.261–63**
 - and possibility, **5.330**
 - as predestinate opinion, **4.xliv**
 - of premise, **3.244**, 245, 341, 342
 - of premise of argument, **2.294–95**, 297
 - and probability, **4.412–13**
 - of proposition, **3.282**, **5.166–67**, 175, 240–41, 337, 366–69, 382–83, 406
 - proposition either true or false, **4.241–42**, 245, 264
 - of propositions, **6.355–56**

Truth (*continued*)

public, 3.253, 351
 reached by keeping oneself open, 6.406
 and reality, 5.222
 of representation, 3.66, 78, 273
 represented by number, 8.77
 Royce on, 8.438
 scale of, 8.xxx, 71, 72, 73, 74, 75
 and scientific method, 3.272, 370–71
 and secondness, 5.307
 set forth by icon, 5.206
 as settled belief, 3.45
 of states of things, 5.331, 334
 table, 8.xlvii
 telling lies in Thessaly, 8.307
 tendency toward, 8.xxxvii, 95, 383
 true application of a name, 3.99
 truth-function analysis, 5.440
 truth table, 5.440
 as the ultimate opinion, 2.468–69
 unclear idea of, 2.357
 universal, 3.317
 and validity of inference, 5.329, 333, 334, 336
 value in algebra of the copula, 8.210
 value in Boohan algebra, 6.1–4
 value in Boolean algebra, 8.64–66, 71, 73, 75–77
 as value-monad, 6.269
 as variety of necessity, 5.333
 of vital importance, 8.465
See also Exactitude; Falsity; Omniscience

Tuism, 1.xxix

Tupper, Martin Farquhar, 6.390, 498

Turenne, Vicomte de, 5.30, 34, 36, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 104–6, 8.266, 268, 639

Turgenev, Ivan Sergejevich, 5.30, 35, 8.278, 449

Turgot, Anne Robert Jacques, 5.30, 36

Turner, Joseph Mallard William, 5.30

Turquette, Atwell R., 5.xxxiii

Tursman, Richard, 6.480, 8.401

Twain, Mark, 8.440

Twentieth century, 8.188, 386

Two, 2.104, 231
 character of character in collection, 8.56
See also Category; Second

Twoness, 8.400

Tychasm, 8.xciii, 194, 414
 degenerate form of agapasm, 8.xciv, 194–

95

mode of development of thought, 8.xciv, 196, 197–99, 414–15, 417–18
 and test of minute variation, 8.197

Tychasticism, 8.194, 195

Tychism, 4.lxx, 5.xxxix, 8.liii–liv, lxxxin.101, xciv, xcvi, 135, 157, 179, 194, 195

Tyler, Royall, 1.21

Tyndall, John, 6.385, 493, 8.lxviii, lxviii.79, 502
 his prayer test, 8.348, 409–10, 465
Heat, a Mode of Motion, 3.2

Type

improvement of, 6.202

representation of verity, 1.80, 323

survival of fittest, 6.201

U

Überweg, Friedrich, 2.74, 76, 77, 113, 115, 3.6–7
System der Logik, 2.77n, 157, 3.7, 4.401, 586*System of Logic*, 3.6–7

Ultima

name for pile of cards, 8.6, 7

Ultimates, 8.xxxvi, 22, 114, 123

none in science, 8.347

See also Fact

Ulugh Beg, 3.182, 389, 474

Uncertainty

of mental action, 8.152–53

See also Chance

Unconscious, 6.lxxix, 387, 394, 496

Understanding

its application to experience, 1.61

esthetic, 6.215

as inference, 2.233

modes of, 2.324–26

objects of as symbols, 2.56

perceptive, 5.281, 287

reducing impressions to unity, 2.49

Underwood, Benjamin Franklin, 8.xxxiii, 369

Uniformity, 6.63, 8.lxxiv

absolute, 8.150–51

affirmative and negative, 3.308n

and fatigue, 8.129

and habit, 8.xc, 181

and habit-taking, 6.208

mental, 8.127

- Uniformity (*continued*)
 in nature, **3.308–9**, *308n*, 312, 314–16, 330,
8.32, 123, 242, 352, 368
 according to Pearson, **8.352**
 primordial element of the universe, **8.xcv**
 requiring explanation, **8.xcv**, 101
 of space, **6.210**
 statistical, **8.105**
See also Order; Regularity
- Unintelligibility, **6.456**, **8.87**
 incomprehensibility, **8.232**, 233, 244
See also Inconceivability; Inexplicability;
 Unknowability
- Unit
 cow as unit of barter, **8.351**, 467
 of gold, **8.351**, 467
 linear, **8.28**, 29
 thing in itself, **6.211**
 of weights and measures, **8.349**, 351, 466,
 467
See also Measure
- Unitarianism, **1.xxx**, *xxxi*, *xxxii*
- United States Census of 1870, **4.416**, 446–47,
446n
- United States Coast and Geodetic Survey, **1.xvi**,
xix, *xx*, *xxi*, **3**, **2.xxi–xxiii**, *xxix*, *xxxv*, **3.xxi**,
xxii, *xxiii*, *xxiv*, *xxvi*, *xxvii*, *xxviii*, *xxxvi*, 170,
 217, 406, **4.xx–xxi**, *xxii*, *xxiv*, *xxvii–xvi*, *xli*, 1,
 132, 144, 155, 160, 212, 240, 350, 351, 358,
 360, 361–62, 516, 540, 578, **5.149**, **6.245**,
8.xxvi, *xxvii–xxviii*, *xl–xli*, *xlvi*, *li–lii*, *lx*, *lxii–*
lxiii, *lxiv*
 the 1885 scandal, **5.xix**, *xxviii–xxx*, *xxxiv*,
xxxviii
 its astronomical station, **6.277**
 and Peirce’s assignments to Europe, **4.xx–**
xxi, *xxvii*, *xxx*, *xxxiv*, *xlvi*
 Peirce’s criticism of, **6.lxvi**, 216, 459, 467
 Peirce’s professional trips for, **5.xx**, *xxi*
 Peirce’s resignation from, **5.xxxii**, *xlvi*
 Peirce’s threat to resign, **5.xxix**
 Peirce’s work for, **5.xix**, *xxxvii–xxxviii*,
6.26–27
See also under Peirce, Charles S.
- United States Coast Survey Report
 for 1875, **6.350**
 for 1876, **5.6**, **6.221n.1**
 for 1881, **5.6**, 7, 10, 17, 23, **6.222**, 291, 296,
 350
 for 1884, **5.xxxii**
 for 1885, **5.xxi**, *xxx*
 for 1886, **5.xxxii**
- United States Department of the Treasury,
4.xxiii, **5.xxix**, *xxx*
- United States Electrical Conference, **5.xxii**
- United States Geological Survey, **4.350**, **5.xxviii**,
xxx
- United States Office of Weights and Measures,
3.xxi, *xxvii*, **4.xxiii**, *xxxv*, *lxviii*, 137, 150–51,
 155, 213, 297, 578, **5.xxi**, **8.lxxxv**
 description of, **5.149–50**
 Peirce’s application as inspector of
 standards, **5.xlvii**
 Peirce’s resignation from, **5.xxviii**, *xxx*
 Peirce’s work for, **5.xxii**, *xxviii*, 438
 plan for its organization, **5.150–52**, 158–
 59, 160–61
- Unity, **1.4**, 43, 327, 517, 519, 523, **6.155**, 162–63
 of being, **1.475**, 486, 520
 a category of the It, **1.530**
 of consciousness, **8.81**
 of consistency, **1.167**, 352, 471, 495, 500,
 516–17, **5.446**
 and consistency, **5.446**
 of the content of consciousness, **2.49**
 defined in logic, **3.115**
 of the ego, **8.182**
 of impressions, **2.49–51**, 54
 infinite quality of quantity, **1.39**, 48
 of the “I think,” **1.471**
 not in firstness, **6.170**
 of phenomena, **2.199**
 as probability of knowledge, **5.249**
 reduction of manifold to, **2.45**, 49–52, 54,
 91, 199, 217, 218 (*see also* Manifold)
 of thought and nature, **8.17**, 19, 23, 24, 352
See also Manifold; One; Zero
- Unity class. *See* Class, unity
- Universal, **1.473**
 in Boole’s system, **1.230–32**
 inherence of, **5.279**, 280
 ordinary, **1.483**
 vs. particular, **6.272**, 274, 384
- Universality
 absolute, **8.347**
 and necessity, **1.27–28**, 154
- Universals, **2.81**, 147, 149, 276, 277
 based on signs, **2.175**

Universals (*continued*)

controversy over, 2.464, 466, 471
 existence of, 2.472–73, 488, 490
 identity of, 2.149
 knowledge of, 2.265
 in mind, 2.472–73, 477
 reality of, 2.xxviii, 175, 180, 467–68, 472–73
 in rebus, 2.472–73
See also Generals; Individuals; Particulars;
 Singulars

Universe, 6.368, 8.425

according to Abbot, 5.xl, 285–86
 account of its origin, 6.209–10
 in Christian theology, 6.174*n*.1
 consciousness in, 8.81, 380
 death of, 4.551
 development of, 5.xxxix, 293, 302, 8.107, 122
 of discourse, 2.366
 elementary constituents of, 5.237, 294
 empty, 4.xlix
 energy of, 4.551
 its evolution, 6.xlvii
 evolution of, 4.lv, 8.103, 155, 386–87
 explanation of, 8.21
 formation of, 3.307–8
 governed by a father, 8.lxxiv, 126, 389
 intelligibility of, 8.19
 limits of, 3.319–20
 as machine, 8.347
 main features of, 8.110
 orderliness of, 3.308
 in original nebula, 8.112
 its process, 6.xlix
 its regularity, 8.21, 110, 125
 riddle of, 4.lxx, 5.xxxviii, xl
 starting and stopping points of, 6.li, 173–74
 states of, 4.xlix, 493–94, 570–71
 theory of, 8.17–18, 23, 24, 106
 its two states shown in logical machine, 6.68*n*
 uniformity in, 4.444
 variety in, 8.109, 122, 150
See also Astronomy; Logic; Possibility; Possible; World(s)

Universe of discourse, 3.115–16, 117, 5.xxvii, 109, 111, 112, 114, 434, 8.55

De Morgan's notion, 6.474
 limited, 5.178, 189, 220, 6.272
 in logic of relatives, 5.115, 179–80
 universe of marks, 5.198
 unlimited, 5.198
 varying, 5.436
See also Logic; Possibility; Reality; State of things

University

of Cracow, 8.1
 function of, 4.xxxvii, 155–56
 liberal education, 4.380
 of methods, 4.379
 state of science in, 8.lx
See also Chicago University; Clark University; Johns Hopkins University

Univocal name, 8.87

Unknowability

of past ideas, 8.136
 Spencer's Unknowable, 8.liii, 244
See also Unintelligibility

Unknowable

absolutely, 2.5, 163, 164, 3.285*n*
 inexistence of, 2.173
 and representation, 2.162, 174
See also Incognizable; Inconceivable

Unknown

as mathematical monad, 6.270

Unobservable, absolutely, 2.129

Unreality, 3.37

See also Nothing

Unterschiedsschwelle, 5.xxv, 122–24, 134, 436

See also Fechner, Gustav Theodor

Unthought, 1.40

Updegraff, Milton, 6.277, 342, 475–76

“Upon Logical Comprehension and Extension” (P 34), 4.8, 560

“On the Use of the Noddy... in a Pendulum Support” (item 42), 5.xxi, xxxii

Utilitarianism

its care for reasoners, 8.269
 motto of, 8.185
 substitute for the Gospel, 8.xcii, 191

Utility

absolute, 2.113
 distinctions based on, 2.483

V

- Vacherot, Etienne, 3.321
 La religion, 3.306–7
- Vacuum, 6.445
- Vagueness. *See* Feeling, vague; Indeterminacy
- Vail, Alfred, 8.419
- Valency, 6.442, 8.xciv, 168, 448, 451, 650
 atomicity, 8.lxxn.85, 285, 451
 of chemical bonds, 5.306–7, 455
- Valentine, Basil, 8.204, 419
- Validity
 of argument, 2.99, 294, 431–32
 of deduction, 2.xli, 215
 explanation of, 1.248
 formal, 2.222
 of hypothesis, 2.xli, 44, 217, 265–66
 of induction, 2.xli, 44, 216, 265–66, 268–70, 279–80, 463, 3.116, 314–16, 330, 8.112, 115, 116
 of inference, 2.xli, 214–17, 221, 265–67, 430–31, 3.116, 191–92, 196, 244–45, 280, 282, 341–42, 5.329, 332–34, 336–37, 8.71–72, 113, 114–15, 117
 of logic, 2.xxv, xxxviii, xli, 153–54, 158, 243, 270, 352
 logical, 5.329, 332, 333–34
 material, 5.329
 psychological, 2.222
 of reasoning, 3.244, 341
 of simple consequence, 5.330
 of syllogism, 2.215, 243–48, 252–53, 431
See also Argument; Inference; Logic; Reasoning
- Valla, Laurentius, 6.7, 417
- Value
 and demand, 3.173–74
See also Political economy
 “On the Value of Gravity at Paris” (item 15), 4.xxx
- Values
 truth and falsehood, 6.269
- Vanderbilt, Cornelius, 6.32, 422, 8.lxxxvii, 460
- Van der Waals, Johannes Diderik, 8.171, 399, 405, 509
 his virial equation, 8.169, 170, 171, 405
- Van Does. *See* Does, Jacob van der
- Variable. *See* Letter
- Variation
 accidental, 8.21–22, 102
 factor of, 8.103
 fortuitous, 6.199, 8.190, 194, 244
 frequency of, 6.201
 minute, 8.197
 in nature, 6.63
 principle of individual, 6.202, 453
 of species, 8.192
 of thought, 8.415
- Variety
 arbitrary element in universe, 8.109, 122
 fact of, 6.205
 of firstness, 6.181, 211
 and natural selection, 6.453
 not mechanical, 6.xxxiv
 springing from spontaneity, 8.liii, liv, 122, 125
See also Diversity
- Vassall, John, Colonel, 8.374
- Vauban, Sébastien Le Prestre de, 5.30, 8.lxvii.75, 266
- Vaucanson, Jacques de, 8.268
- Vauvenargues, Luc de Clapier de, 8.268
- Veblen, Thorstein, 4.xxxviii, li
- Vector
 logical interpretation of, 2.414–15
 operations on vectors, 3.238–39
- Vega, Lope de, 5.30, 34, 35, 8.266
- Vehicle, 8.232
- Velásquez, Diego Rodríguez de Silva, 5.30, 34, 35, 8.266
- Velocity
 absolute, 8.xxxi
 angular, 8.425
 of falling bodies, 8.384
 infinite, 8.107
 instantaneous, 8.396
 of molecules, 8.162, 163, 176, 177–78
 of particles, 8.120–22, 146, 396
 reversed, 8.16, 433
 of solar system, 8.229, 426
See also Motion
- Venn, John, 4.xli, l, lii, lviii, 406, 589, 6.272, 425, 428, 473, 474, 8.30, 367
 on credibility, 2.100–101, 101n
 his diagram, 5.164, 369
 his notation, 5.168
 on probability, 2.22–23, 46n, 98–100, 3.281n, 291–92

- Venn, John (*continued*)
Symbolic Logic, 4.587
The Logic of Chance, 2.xxv, 23n, 98, 3.281n
- Vera, Augusto, 2.132, 143
- Vera causa, 8.87, 119, 167, 167n.2
 doctrine of, 8.125
See also Cause
- Veracity
 the truth of a sign, 1.80
- Verb
 persons of the, 1.4
- Verifiability, 2.45n
- Verification, 2.129, 315
 by direct observation, 2.45n, 129–30
 of experience, 3.243, 339
 experimental, 6.204, 248
- Verisimilitude
 resemblance between the representation
 and its object, 1.79–80
- Verity, 1.80, 83, 93
 as kind of representation, 1.322
- Veronese, Paolo, 5.29
- Versor
 logical interpretation of, 2.415
- Very, Frank Washington, 5.4, 8, 425
- Very, Samuel W., 6.217, 461
- Vesalius, Andreas, 5.30, 34, 38, 8.lxvi, 266, 268,
 639
- Vice, 8.189
- Vid
 added to algebra, 3.162–63
 classification of vids, 3.161–62
- Vidocq, François, 5.30, 8.266, 443
- Vieta, François, 5.30
- Villarceau, Yvon, 4.xxx, 158, 567, 568
 his regulator, 6.276, 346, 475
- Vincent, James P., 8.659
- Vincent of Beauvais (Vincentius Bellovacensis)
Speculum doctrinale, 2.71n
- Vinculum, 8.70
 as negation sign, 5.177
- Virgil, 5.30, 34, 35, 77, 79, 81, 83, 85, 87, 89, 91,
 93, 95, 8.266
- Virial, 8.163, 176
 Clausius's definition, 8.399
 equations of, 8.168–69, 170, 171, 406, 407
 law of, 8.168, 399, 405
 of particles, 8.168, 170
- Vis a tergo*, 8.195
- Viscosity, 8.97, 105, 204, 244, 403, 404, 432, 433
 of gas, 8.16, 167
 theory of its effect on the pendulum, 6.lxix,
 322
See also Air
- Vision
 physiological explanation of, 6.449
 theory of, 2.166, 196–97, 235–36, 484–85
See also Perception
- Vis viva*, 5.275n, 402, 6.385, 450
 law of, 8.lii–liii, 244, 432–33
 Peirce's note on, 8.629
- Viviani, Vincenzo, 6.499
- Vividness
 of firstness, 6.170, 171
- Voice
 expression of the second kind, 6.213
- Voigt, A. H., 4.xlvii
- Voigt, Woldemar, 8.168, 405
- Volition, 1.28, 491
 as abstracting, 2.207
 attention as, 4.42
 and desire, 5.246
 and dual consciousness, 5.225, 446
 as element of cognition, 5.223
 as element of sensation, 5.225
 as element of thought, 5.222, 230
 external, 6.189, 215, 448, 458
 internal, 6.448, 458
 nature of, 2.172, 207
 neglected by Hegel, 5.222, 223, 230
 neglected by Royce, 5.232
 and nervous system, 3.122–23
 neurophysiology of, 4.40–43
 physiology of, 8.16
 and second faculty of mind, 5.246
 type of the polar sense, 6.448
 volitional element of thought, 3.338
See also Will
- Volta, Alessandro, 8.278, 280, 449
- Voltaire, 5.30, 34, 35, 8.266, 278, 279, 639
- Vorländer, Franz, 2.76, 77, 84
- Vortex
 atomic theory, 5.288
 related to mind-body problem, 5.xlvii
 theory, 8.233, 404
 vs. wave, 8.404
- Vortex-ring, 6.250

Vortex-theory

- of matter, 6.249–51, 470
- six proved propositions in, 6.249–50

Vossius, Gerardus Johannes, 1.163

Vox, 2.276–77

See also *Flatus vocis*; Nominalism; *Sermo*

W

Waddington, Charles, 1.205

Wade, 1.118, 118*n*

Wagner, Richard, 5.30, 34, 35, 8.266, 279, 639

Waitz, Theodor, 2.108

Waldo, Leonard, 5.310, 457

Wales, 4.283

Walker, Robert James, 2.xxii

Wallace, Alfred Russell, 8.42, 204, 373, 385

Wallace, William, 5.34, 36, 8.266, 268

Wallenstein, Albrecht von, 5.30

Walling, Henry F.

his 1854 map of Cambridge, 8.45 *map*

Wallis, John, 1.120*n*, 121*n*, 122*n*, 123–24, 128–31, 135–36, 139–43, 8.269

Wallon, Henri Alexandre, 4.82

Wall Street, 6.252

Walther, Elisabeth, 6.xxv*n*.2

Walther von der Vogelweide, 5.30

Wanda Farm, 8.xxvi, xxvii, xlvii, 489

See also Arisbe; Quicktown

Warburg, Emil Gabriel, 4.105–6

“Ueber Reibung und Wärmeleitung,”
4.564

Ward, William Hayes, 8.504, 671

Ware, Mary Harriet

Miss Ware’s school, 8.46, 376

Warner, Joseph Bangs, 3.xxx–xxxi, xxxii, 8.lvii, 246, 438, 628, 629

Warren, John Collins, 8.204, 205, 419

Washburn Observatory, 6.342, 475

Washington, George, 5.30, 34, 36, 6.179, 8.266, 267, 278, 279, 280, 639

Washington Observatory, 6.275, 475

See also National Observatory

Washington Post

its criticism of Peirce, 5.xxix

Watson, Thomas, 8.419

Watt, James, 5.30, 34, 38, 8.266

Watts, Charles, 8.427

Watts, Isaac, 2.75, 76

Wave

vs. vortex, 8.404

Webb, Charles Henry

Webb’s adder, 6.65, 428

Weber, Wilhelm Eduard, 2.xxx, 5.30, 8.419

Webster, Daniel, 1.xv, 8.lxv, lxv*n*.75, 266, 279, 639

Webster, Noah, 1.129

Weddle, Thomas, 4.90

A New, Simple, and General Method, 4.563

Weights and measures, 6.377, 378

ancient, 8.349–51, 466, 467

Peirce’s list of modern pounds, 8.466

weights of Naucratis, 8.350–51, 466–67

See also Measurement; Metrology

“On Weights and Measures” (P 270), 5.xxii–xxiii

Weismann, August, 6.403, 502, 8.xciii,

xciii*n*.116, 102*n*.1, 192, 192*n*.2, 385, 413, 414

Weiss, John, 1.xxvii

Weiss, Paul, 5.xxv, 6.lxxx*i*, 8.xcvi*n*.122

Welby, Victoria Lady, 4.lix, 8.lxxxiii*n*.91, 454

Welding

and association, 8.13, 19, 149

of feelings, 8.lxxxiii, 13, 149, 409

of ideas, 8.lxxxiii, 21, 128, 136, 151

of infinitesimal moments, 8.lxxxiv

Wellington, Duke of, 5.30, 34, 36, 77, 79, 81, 83,

85, 87, 89, 91, 93, 95–103, 8.266, 268, 279

Wertheim, Wilhelm, 4.121, 135, 564

Wesley, John, 5.30, 34, 38, 8.266, 268

Westbrook, May, 6.liv

Westminster confession, 6.497

Weston, Burns, S., 8.433

What, the

and the why of Aristotle, 1.502

Whately, Elizabeth

Synonyms, 1.18

Whately, Richard, 1.xviii, xix, xxxi, 360, 5.225,

8.376, 381, 469

Elements of Logic, 2.xxvi, xxvii*n*, 5.446

What is, 2.55

all that is, 1.324 (see also *Summum genus*)

that which is, 1.332, 334

See also Being; Category; It; Substance

“What Pragmatism Is,” 8.xcv

Wheatstone, Charles, 8.419

chronoscope of, 3.133

Wheeler, William Adolphus

A Brief Biographical Dictionary, 3.313, 4.589

- Whewell, William, 1.xxiii–xxiv, 163, 2.311, 442, 486, 4.401, 6.204, 455, 8.94, 200, 382–83, 417
 his conception of science, 2.339–40
 on concepts in science, 2.342–44
 disagreement with Mill, 1.210
 his historical theory of science, 2.339
 on hypothesis, 1.211
 on induction, 1.205–8
 on inference, 1.210
 as a Kantian, 1.205, 207
 Kantianism of, 2.340–42
 as a man of science, 2.337–39
 on optics, 1.209
Novum Organon Renovatum, 2.339, 4.587
The History of Scientific Ideas, 2.338
The History of the Inductive Sciences, 2.338
The Philosophy of the Inductive Sciences, 2.338
- Whipple, George Mathews, 4.83
- White, Andrew Dickson, 6.276, 475
- White, Richard Grant, 1.21, 117–18, 120*n*, 121, 124, 127–28, 130, 136, 137*n*, 138*n*
- Whitehead, Alfred North, 2.xxxi, 5.xxxiii
- Whitfield, Henry, 5.30
- Whitman, Edmund Burke, 8.46, 376
- Whitman, Walt, 8.278
- Whitney, Henry, 6.lixn.39
- Whitney, William Dwight, 5.xliii, 480, 6.lix, lixn.38, lixn.39
- Whittemore, Babby, 8.46, 375
- Whittemore, Thomas, Rev., 8.375
- Whittemore, Thomas J., 8.46, 375
- Whittemore, William, 8.375
- Whole
 greater than its part, 8.140, 394
- Whole numbers, 8.140, 141, 142
 Cantor on, 6.251
- “Why Do We Punish Criminals?” (sel. 52), 8.lxxviii–lxxix, 670–72
- Wible, James, 8.xciin.115
- Wiclif. *See* Wyclif (or Wycliffe), John
- Wiedemann, Gustav Heinrich, 4.105, 8.168*n*.4, 405
- Wiener, Philip P., 8.652
 “Peirce’s Evolutionary Interpretations,” 4.lxix
- Wilberforce, William, 5.30, 8.277
- Wild, John James
Thalassa, 4.533, 594
- Wiles, Andrew, 8.444
- Wilkins, John, 1.124*n*, 128
- Will, 2.135, 179, 5.298, 6.202
 attention as, 6.185
 vs. desire, 5.246
 distinct from desire, 6.185
 in dual consciousness, 6.214, 458
 as element of sensation, 5.225
 as element of thought, 5.222
 external and internal, 6.186, 189
 freedom of, 1.6, 8.liiii, 112, 387, 388
 of God, 5.222
 and law of conservation of energy, 8.432
 and mental concentration, 6.35
 and polar sense, 6.186, 214
 psychology of, 5.232
See also Volition
- William of Auvergne, 2.71*n*
- William of Champeaux, 2.464
- William of Ockham. *See* Ockham, William of
- William of Orange (William the Silent), 5.30, 34, 36, 8.266, 279, 639
- William of Sens, 5.31, 430
- William of Sherwood (Shyreswood), 2.32, 39, 311
 on moods, 1.508
- William of Wykeham, 5.31
- Williams, Ralph Olmsted, 8.484
- Williams, Roger, 5.31
- Williamson, Alexander William, 8.172*n*.7, 406
- William the Conqueror, 5.30, 34, 36, 8.lxvi, 266, 268, 639
- Willigen, Volkert Simon Maarten van der, 4.10, 279, 282, 560
- Willing
 as element of mental life, 4.555
 as operation of the mind, 4.411
 and sensation, 6.185
 third department of mind, 6.183
 volition as deduction, 4.422
 will and mathematics, 4.556
 will and relation, 4.555
- Wilson, Edmund Beecher, 8.xcvi, xcvin.122
- Wilson, Henry, 5.31
- Wilson, John, 1.21
- Wilson, William Dexter, 2.78
An Elementary Treatise on Logic, 2.78*n*
Lectures on the Psychology of Thought and Action, 3.2–3

- Winckelmann, Johann Joachim, 5.31
- Winlock, Joseph, 1.xvii, 2.xxii, xxiii, xxxii, 288*n*, 4.xxxiii
- Wisdom, 1.5
and knowledge, 1.4
- Witt, Johan de, 8.261
- Wolf, Charles Joseph Etienne, 4.82, 353, 563
- Wolf, Friedrich August, 1.21
- Wolff, Christian, 1.104, 244, 2.136, 157, 4.555, 594, 5.449, 6.446
Logik, 2.115
- Wollaston, William Hyde, 4.73–74
- Wolsey, Thomas, 5.31
- Wood, Henry, 4.lxvii
- Woods, Frederick Adams, 4.581, 8.lxvn.74
- Woolf, Albert E., 8.lxxxvi, lxxxvii, 406, 411
- Worcester, Joseph Emerson, 1.51, 125
New Dictionary, 1.51
- Word(s)
the acquired nature of, 1.172
ambiguity of, 8.70
categorematic, 8.86
comprehension of, 2.74
extension of, 2.74
extension, comprehension of, 1.459–60
general meaning of, 2.305
inessential in reasoning, 8.24
J. S. Mill on, 1.459–60
Locke on, 1.170–73
man and, 1.495–96, 498
meaning of, 1.17–19
mental, 1.495
signification of, 1.19, 2.474
syncategorem, 8.86
in Thomas of Erfurt, 2.326–27
See also Name; Term(s)
- Wordsworth, William, 5.31, 34, 35, 6.liiii, 8.266, 640
- World(s)
its antithetic representation in hyperbolic geometry, 8.93–94
belief in existence of, 3.45
chance-world, 3.308–12
external, 2.162, 213, 8.78
of forms, 6.258
hyperbolic evolution of, 8.386
inner and outer, 6.201
internal, 2.162, 206, 213
orderliness of, 3.308, 310–12
perfect, rational, and symmetrical system, 8.110
possible, 6.355
real vs. ideal, 6.255, 258
separated stream, 6.209
three, 1.46–47, 83, 167–68
unitary conception of, 8.43
See also Nature; Universe
- Wren, Christopher, 5.30
- Wright, Chauncey, 1.xxvii, 2.xxiv, xxxii, 487–89, 3.xxx, xxxi, xxxii, xxxvi, 208, 8.376
- Wüllner, Adolph, 6.302, 481
Lehrbuch der Experimentalphysik, 4.107, 564
- Wundt, Wilhelm Max, 2.xxx, 276, 306–7, 4.1, 380, 586, 6.448, 8.235, 428
Vorlesungen über die Menschen- und Thierseele, 2.xxx, 307*n*
- Wyclif (or Wycliffe), John, 5.30, 34, 38, 8.266, 268, 443, 639
- X**
- Xavier, Francis, St., 5.31, 34, 38, 8.266, 278, 279, 448, 640
- Xenophanes, 1.390, 6.444
- Xerxes the Great, 5.31
- Ximenes de Quesada, Gonzalo, 5.31
- Y**
- Yale University, 4.154
- Yankee
character, 1.456
- Yard, 6.377, 378
measurement of, 6.282
Yard and Metre Bar No. 1, 6.350, 353, 477
- Youmans, Edward L., 4.xlvi
- Young, Brigham, 8.266, 640
- Young, Charles Augustus, 8.248, 439
- Young, Thomas, 3.211, 4.530, 5.31, 34, 37, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 104–6, 392, 402, 468, 6.386, 495, 8.266, 269, 640
“Tides,” 4.515, 585
- Young People’s Society of Christian Endeavor, 8.xc, 183, 409

Z

- Zaimis, Thrasyvoulos, 8.460
- Zeisberger, David, 5.31
- Zeman, J. Jay, 5.xxxiiin, 6.425
- Zeno, paradox of. *See* Paradox
- Zenobia, 5.31, 8.266, 640
- Zeno of Elea (the Skeptic), 5.34, 37, 6.445, 454, 8.266, 443, 640
 - axioms, 1.391
 - four arguments on motion, 1.391
 - on impossibility of motion, 6.214
 - paradoxes of, 1.390, 2.173, 178, 184, 254, 256–57
- Zeno the Stoic, 5.31, 37
- Zermelo, Ernst
 - his axiom of choice, 5.441, 453
- Zero
 - as comparative third, 5.301
 - defined in algebra, 3.186
 - denoting nothing, 3.86, 87, 115
 - as probability of knowledge, 5.249
 - properties of, 3.88
 - as starting-point of evolution, 5.xxxvii
 - See also* Nothing; One; Unity
- Zero class. *See* “Zero” *under* Class
- Zero sign, 6.417
 - as falsity sign, 6.3, 4, 53
- Zinzendorf, Nikolaus Ludwig von, 5.31
- Zöllner, Johann Karl Friedrich, 3.182, 183, 391, 392, 4.544, 6.388–89, 497–98
 - astrophotometer of, 3.xxv, 185, 388, 389
- Zoology, 8.173
 - classification in, 5.359
- Zoroaster, 5.31, 34, 38, 8.266, 268, 443, 640
- Zwingli, Huldrych, 5.31, 38