

Index of names

- Abraham, 504
 Abubekr, 647, 648
 Addison, Joseph, 186, 712
 Adickes, Erich, 435, 436, 438, 690, 702,
 704, 706, 717, 723
 Aelianus, Claudius, the Sophist, 584,
 743
 Aepinus, Franz Ulrich Theodosius, 418,
 420, 720
 Aeschylus, 609
 Aischa (wife of Mohammed; daughter of
 Abubekr), 648
 Albuquerque, Alfonso de, 664, 749
 Alexander the Great, 297, 666
 Ali (son-in-law of Mohammed), 647,
 648
 Amontons, Guillaume, 320, 321, 713
 Anson, George (Baron of Soberton),
 488, 671, 730, 748
 Appius, 536
 Aristotle, 5, 22, 436, 491, 497, 688, 695,
 731
 Augustus (Caesar), 558
 Aurangzeb (Mogul Emperor), 638, 748
 Avicenna (Ibn Sina), 646, 748
- Baldwin (Balduinus), Christianus
 Adolphus, 626, 747
 Balfour, Francis, 727
 Barrow, Sir John, 508, 736
 Baumeister, Friedrich Christian, 393,
 408, 719
 Baumgarten, Alexander Gottlieb, 385,
 393, 718
 Beccaria, Giovanni Battista, 420, 421,
 422, 720
 Bergman, Torbern Olof, 481, 729
 Bering, Vitus Jonassen, 653, 730, 743,
 749
 Bernoulli, Daniel, 20, 498
 Bernoulli, Johann, 6, 14, 20, 53–5, 66,
 81–2, 90, 112, 116–18, 120,
 129–31, 414
- Bernoulli, Johann III, 416, 518
 Bernoulli, Nicolaus, 131
 Beroldingen, Franz Cölestin, Freiherr
 von, 503, 733
 Bertuch, Friedrich Justin, 467, 491, 727
 Biester, Johann Erich, 418
 Bilfinger, Georg Bernhard, 71–6, 87–9,
 691, 695, 698
 Binet, Isidore, 373, 717
 Bode, Johann Ebert, 453, 465, 467, 498,
 727
 Boerhaave, Hermann, 178, 320, 706
 Bohlius, Johann, 12, 684
 Bosman, Willem, 662
 Bouguer, Pierre, 328, 352, 355, 357,
 365, 369, 436, 499, 520, 715
 Boyle, Robert, 359, 361, 520, 715
 Bradley, James, 183, 202, 219, 256, 401,
 707, 719
 Breislak, Scipione, 535, 739
 Breitenbauch, Georg August von, 452,
 724
 Brocke, Barthold Heinrich, 270, 708
 Brodrick, Thomas, 485, 730
 Browne, William George, 507, 735
 Bruce, James, 507, 735
 Bruns, Paul Jakob, 508, 736
 Buache, Philippe, 508, 514, 516, 737
 Buffon, George Louis Leclerc, Comte
 de, 183, 207, 238, 290, 346, 350,
 356, 388, 392, 423, 424, 425, 436,
 492, 564, 710
 Büsching, Anton Friedrich, 436, 724
 Burnet, Thomas, 392, 563, 719, 741
- Caesar, Julius, 558
 Canzler, Ferdinand Gottlieb, 724
 Carré, Louis, 334, 714
 Cassini, Jaques (Cassini II), 520, 737
 Catelan, François de, 89, 696, 702
 Celsius, Anders, 560, 741
 Charlemagne, 624
 Charles V, 674

Index of names

- Charpentier, Johann Friedrich Wilhelm
 Toussaint von, 503, 733
- Chastelet (Gabrielle Émelie, Marquise
 du Châtelet), 6, 44, 53, 62–3, 83,
 108–9, 112, 113–16, 701
- Christ, 633, 638, 646, 648, 658
- Clavius, Christopher, 421
- Cola Pesce, 494, 731
- Confucius (Kung Fu-Tzu), 633, 748
- Copronymus, Constantine, 558
- Crawford, Adair, 418, 424, 721
- Crome, August Friedrich Wilhelm, 724
- D'Alembert, Jean Le Rond, 3, 698
- D'Anville, Jean-Baptiste Bourguignon,
 723
- Dalrymple, Alexander, 512, 737
- Dampier, William, 362, 473, 642, 716
- De la Hire, Gabriel-Philippe, 316, 520,
 713, 737
- De la Lande, Joseph Jérôme Lefrançais,
 726
- De Quincey, Thomas, 165
- Democritus, 108
- Derham, William, 203, 709
- Descartes, René du Perron, 1–5, 6, 20,
 34, 36, 38, 41–2, 44, 55, 61, 71, 74,
 82, 83, 90, 92, 99, 103, 105, 128,
 145, 147, 150, 151, 183, 199, 309,
 312, 400, 541, 542
- Digby, Kenelm, 368, 716
- Dorn, Martin Eberhard, 11
- Dousa, Janus (Johan van der Does), 609,
 745
- Driest, Johann Friedrich, 186
- Ebeling, Christof Daniel, 724
- Ellis, Henry, 674, 678, 750
- Epicure (Epicurus), 194, 198, 706
- Euler, Leonhard, 4, 310, 319, 498, 499,
 713, 732
- Fabri, Johann Ernst Ehregott, 449, 481,
 498, 512, 516, 725
- Fatima (daughter of Mohammed),
 648
- Flamsteed, John, 202
- Fontenelle, Bernard le Bovier de, 168,
 169, 705
- Forster, Georg, 535, 739
- Forster, Johann Reinhold, 470, 728
- Francis I (Holy Roman Emperor),
 626
- Franklin, Benjamin, 373, 717
- Frederick II of Prussia, 182, 409
- Frisi, Paolo, 156
- Gabriel (Angel), 647
- Galen, 646
- Galilei, Galileo, 2, 699
- Gaspari, Adam Christian, 457, 467, 491,
 508
- Gassendi, Pierre, 365, 371, 717
- Gatterer, Johann Christof, 516, 737
- Gautier, Jacques, 362, 716
- Gedan, Paul, 436
- Gehler, Johann Samuel Traugott, 457,
 469, 477, 480, 484, 491, 495, 498,
 520, 725
- Gellert, Christian Fürchtegott, 204, 708
- Genghis Khan, 577, 743
- Gensichen, Johann Friedrich, 186
- Gentil, Labarbinais le, 331, 350, 356,
 714
- Georgi, Johann Gottlieb, 481, 507, 729
- Gerstner, Franz Joseph von, 521, 738
- Gilbert, Ludwig Wilhelm, 499, 732
- Girtanner, Christoph, 469, 508, 727
- Glauber, Johann Rudolf, 484, 730
- Gmelin, Johann Georg, 485, 487, 649,
 650, 652, 670, 730
- Gottsched, Johann Christoph, 103, 273,
 703
- Gren, Friedrich Albrecht Carl, 469,
 480, 499, 728
- Grimm, Johann Karl Philipp, 469, 728
- Guettard, Jean-Étienne, 740
- Hales, Stephen, 178, 276, 323, 324, 360,
 706, 712
- Haller, Albrecht von, 186, 267, 273,
 306, 708, 711
- Halley, Sir Edmund, 483, 520, 541, 729
- Ham (son of Noah), 574
- Hamberger, Georg Erhard, 29, 57, 58,
 328, 694
- Hamilton, Sir William, 420, 535
- Harding (translator of Herschel), 499
- Hartmann, Johann Melchior, 507, 508,
 735
- Hartsoeker, Nicholas, 176
- Hartung, Johann Heinrich, 337

Index of names

- Hastie, William, 187
 Hector, 90
 Herodotus, 173, 436, 664
 Herrmann, J., 6, 14, 20, 42, 43, 44, 47, 49–52, 82, 90, 120, 131
 Herschel, Sir Frederick William, 183, 187, 418, 420, 421, 422, 424, 465, 498, 523, 720, 726
 Hevelius, Johannes, 203
 Hildebrand, Georg Friedrich, 469, 523
 Holstein, Friedrich Karl Ludwig von, 435
 Hooke, Robert, 420, 721
 Hornemann, Friedrich Konrad, 508, 735
 Horrebow, Peter, 520, 737
 Hube, Johann Michael, 469, 728
 Hübner, Johann, 341, 715
 Humboldt, Alexander von, 508, 673, 736
 Huygens, Christian, 48, 215, 219, 251, 253, 425, 708

 Jaki, Stanley, 187
 John the Baptist, 664
 Johnston, Ian, 187
 Jones, Sir William, 727
 Jurin, James, 6, 53, 107, 108, 109, 110, 114, 122, 136, 144, 377, 381, 701

 Kepler, Johannes, 212, 692
 Keyssler, Johann Georg, 602, 614, 745
 Khadija (wife of Mohammed), 647, 648
 Kindermann, Eberhard Christian, 368
 Kircher, Athanasius, 494, 618, 746
 Knutzen, Martin, 4, 309, 386, 685, 690
 Kolb (Kolbe or Kolben), Peter, 394, 549, 575, 592, 719, 741

 Lambert, Johann Heinrich, 187, 414, 415–17, 499, 709
 Langhanns, Daniel, 525, 738
 Laplace, Pierre-Simon de, 187
 Lavoisier, Antoine-Laurent, xvii, 469
 Le Maire, Jacques Joseph, 611, 745
 Le Vaillant, François, 508, 576, 654, 735
 Leibniz, Gottfried Wilhelm, 1–3, 5–7, 14, 16, 17, 19, 20, 22–3, 27, 34–8, 41, 42, 44–5, 46–9, 53, 54, 55–61, 63–8, 71, 76–84, 89–96, 98–9, 103–5, 106, 107–8, 110, 111–12, 113, 116, 120, 128, 131, 133, 139, 144–55, 327, 392, 396, 405, 564, 685, 686, 687, 688, 689, 690, 694, 695, 696, 697, 699, 742
 Lessing, Gotthold Ephraim, 4
 Leucippus, 198
 Lichtscheid, Ferdinand, 6, 45, 46, 701
 Lind, James, 485
 Linnaeus, Carolus (Carl von Linné), xvii, 392, 448, 485, 522, 564, 719, 723
 List(er), Martin, 369, 716
 Lucretius, 198, 282
 Ludolph, Hiob, 575, 604, 664, 742, 749
 Ludwig, Christian Friedrich, 724
 Lulof, Johann, 350, 388, 429, 718

 Macartney, George (Earl), 507, 633, 734
 MacLaurin, Colin, 498, 732
 Magellan, Ferdinand, 568, 742
 Magellan, Jean-Hyacinthe, 420, 720
 Mairan, Jean Jacques d'Ortus de, 44, 53, 62, 82, 83, 87, 113–16, 259, 700, 701, 711
 Mallet, Friedrich, 436, 467, 726
 Mannert, Konrad, 723
 Maraldi, Giacomo Filippo, 325, 714
 Mariotte, Edme, 325, 352, 378, 384, 518, 520, 541, 705
 Marsigli (or Marsili), Luigi Ferdinando, 346, 436, 485, 715
 Maupertuis, Pierre Louis, 183, 707
 Mayer, H. R., 498
 Meier, George Friedrich, 393, 408, 719
 Mentelle, Edme, 724
 Merou, Jean-Jacques d'Ortus de Mairan, 528
 Mitterpacher, Ludwig, 503, 733
 Mohammed, 646, 647
 Monge, Gaspard, 491, 731
 Monnier, Pierre Charles le, 320, 713
 Montesquieu (Secondat), Jean Baptiste de, 576, 743
 Moro, Antoine Lazzaro, 436, 559, 563, 741
 Moses, 258, 535, 647
 Muschenbroek, Petrus van, 394, 486, 490, 730

Index of names

- Nebuchadnezar, 638
 Newton, Sir Isaac, 3, 14, 55, 134, 141, 161, 183, 184, 201, 207, 208, 217, 226, 233, 235, 236, 237, 252, 253, 269, 286, 288, 289, 300, 301, 310, 319, 321, 368, 370, 371, 396, 403, 453, 454, 478, 495, 496, 498, 529, 724
 Niebuhr, Carsten, 507, 734
 Noah, 563, 660
 Norden, Friedrich Ludwig (or Frederick Lewis), 507, 735
- Oriani, Barnabe, 726
 Osman, 647
 Otto, Johann Friedrich Wilhelm, 469, 481, 491, 728
 Ovid (Publius Naso Ovidius), 106, 436, 491, 731
- Pallas, Peter Simon, 420, 507, 720
 Papin, Denis, 94, 95, 96, 98, 100, 702
 Park, Mungo, 508, 735, 736
 Pascal, Blaise, 520, 737
 Paulus, Heinrich Eberhard Gottlob, 452, 724
 Peiresc(ius), Nicolas-Claude Fabri de, 371, 717
 Perrault, Pierre (Peravet), 521, 738
 Peter I, 653, 705
 Petersen, Johann Friedrich, 182
 Piazzì, Giuseppe, 726
 Pliny the Elder (Gaius Plinius Secundus), 436, 491, 533, 536, 575, 731
 Plutarch, 497, 731
 Poleni, Giovanni, 20, 151, 687
 Poll, 372
 Pontoppidan, Erik, 600
 Pope, Alexander, 186, 211, 225, 270, 294, 301, 306, 568, 708
 Pound, James, 253, 711
 Profe, Godfredus, 365, 368, 716
 Pytheas of Massalia (Marseilles), 497, 731
- Raleigh, Sir Walter, 672, 750
 Ray, John, 350, 715
 Redern (Roden), Sigismund Ehrenreich von, 505, 733
 Reineggs, Jacob, 507, 511, 621, 734
 Remus, 400, 719
- Rennell, James, 508, 736
 Riccioli, Giovanni Battista, 151, 708
 Richter, Georg Friedrich, 6, 109–10, 144, 703
 Rin(c)k, Friedrich Theodor, 434, 435, 436, 437, 444, 723
- s'Gravesande, Willem Jacob, 20, 151, 687
 Salmon (Salomon), Thomas, 646, 748
 Sannacherib, 551
 Saussure, Horace Bénédict de, 520, 738
 Schelling, Friedrich Wilhelm Joseph von, 461, 523, 738
 Scheuchzer, Johann Jacob, 343, 520, 562, 715
 Secondat, Jean-Baptiste, Baron de, 321, 713
 Seneca, 14, 685
 Sievers, Johann August Carl, 507, 734
 Silberschlag, Johann Esaias, 409, 412
 Sonnini de Manoncourt, Charles-Nicholas-Sigisbert, 507, 735
 Sprengel, Matthias Christian, 508, 736
 Stark, Werner, 435, 438, 723
 Steinwehr, Wolf Balthasar Adolph von, 178, 256
 Steller, Georg Wilhelm, 583, 743
 Sulla, 536
 Symes, Michael, 507, 733
- Thales of Miletus, 468, 727
 Thevenot, Jean de, 654, 749
 Timoleon, 14, 685
 Toaldo, Guiseppe, 431, 722
 Torre, Giovanni Maria della, 421, 721
 Tournefort, Joseph Pitton de, 604, 653, 738, 745
 Trajan, 626
 Turner, Samuel, 507, 733
 Tycho, 202
- Ulloa, Y de la Torre Giral, Antonio de (Don Antonio de Ulloa), 420, 421, 557, 576, 721
- Vallemont, Abbé de (Pierre Le Lorrain de Vallemont), 368, 716
 Varenius, Bernhardus, 350, 377, 388, 436, 543, 701

Index of names

- Venturi, Giovanni Battista, 614, 746
 Vespasian, 533
 Virgil, 90, 98
 Vitruvius, Pollio, 746
 Voigt, Johann Carl Wilhelm, 503, 732
 Voigt, Johann Heinrich, 467, 727
 Vollmer, Gottfried, 434, 442, 443, 722
 Volney, Constantin François
 Chasseboeuf, Comte de, 507,
 735
 Voltaire (François-Marie Arouet), 327,
 714, 741
 Wahl, Samuel Friedrich Günther, 507,
 734
 Walch, Johann Ernst Immanuel, 467,
 726
 Wallerius, Johann Gottschalk, 175,
 705
 Wallis, John, 48, 701
 Weitenkampf, Johann Friedrich, 263,
 711
 Whiston, William, 183, 368, 392, 564,
 716
 Wilhelm, Johann Jakob, 434
 Williams, David, 431, 722
 Wilson, Alexander, 425, 721
 Winkler, Johann Heinrich, 328
 Wolff, Christian Freiherr von, xiv, 5, 6,
 14, 31, 48, 81, 90, 99–103, 118–20,
 328, 374, 400, 408, 689, 691, 692,
 693, 694
 Woodward, John, 392, 436, 563, 719,
 741
 Wren, Christopher, 48, 692, 701
 Wright, Thomas (of Durham), 183,
 201, 202, 215, 278, 707
 Zach, Franz Xaver von, 457, 467, 491,
 508, 509, 535, 725
 Zimmerman, Eberhardt August
 Wilhelm von, 573, 742
 Zoroaster, 645
 Zweig, Arnulf, 414

Index of places

- Aachen, 524
 Aare River, 516
 Abo, 344
 Abyssinia, 507, 543, 575, 581, 663–5
 Acapulco, 395
 Adam's Peak, 643
 Adda, 662
 Adriatic Gulf, 493
 Adriatic Sea, 470, 471, 516, 602, 627
 Africa, 162, 345, 349, 352, 354, 437,
 470, 471, 472, 473, 479, 504, 505,
 507, 508, 509, 511, 514, 554, 572,
 573, 574, 578, 582, 583, 586, 591,
 593, 596, 603, 604, 609, 613, 615,
 616, 619, 645, 654–65
 Agnano Sea, 667
 Aleppo, 609, 653
 Alexandria, 663, 666
 Algier (Algeria), 508
 Almada, 620
 Alps, 350, 351, 352, 514, 515, 516, 548,
 583, 588, 666, 667, 679
 Alsace, 351
 Amazon River, 391, 543, 544, 545, 546,
 559, 568, 578, 605, 613, 672
 Amboina, 341, 639
 Ambon, 614
 America (*see also* North America and
 South America), 162, 352, 357,
 395, 437, 470, 471, 472, 473, 478,
 493, 501, 504, 505, 506, 508, 509,
 511, 514, 515, 534, 554, 573, 576,
 578, 580, 584, 588, 592, 595, 596,
 605, 607, 614, 617, 618, 653, 678–9
 Anatolia, 582
 Andalusia, 609, 615, 669
 Andaman, 642
 Angola, 573, 575, 657, 658
 Angoulême, 345
 Antarctic Ocean, 501
 Antilles Islands, 536, 595
 Antiparos, 528
 Apennine Mountains, 516, 666
 Apulia, 604, 668
 Aquapendente, 350
 Arabia, 382, 395, 507, 509, 541, 543,
 548, 549, 550, 551, 557, 612, 614,
 646–8
 Arabia Felix, 503, 546
 Arabian Ocean, 382
 Arabian Peninsula, 471
 Arabian Sea (Red Sea), 394, 471, 472,
 555
 Arakan, 578, 579, 637, 638
 Aral Sea, 503
 Archangel, 471, 481
 Archipelagus, 512, 555
 Arctic Circle, 358, 529
 Arctic Ocean, 389, 451, 452, 470, 471,
 484, 499, 501, 502, 506, 515, 544,
 595, 653, 678–9
 Armenia, 653, 666, 734, 743, 749
 Ascension, 538, 553
 Aschersleben, 409
 Asia, 162, 437, 470, 471, 472, 473, 503,
 504, 506, 507, 509, 511, 514, 515,
 516, 558, 572, 582, 584, 586, 591,
 619, 629–53
 Asia Minor, 354, 558
 Asphalt Lake, 481
 Assam, 637, 638
 Astrakhan, 511, 618, 651
 Atjeh, 641
 Atlantic Ocean, 362, 386, 395, 473, 478,
 487, 509, 516, 551
 Atlantis, 508
 Augsburg, 359, 549
 Australia (*see* New Holland)
 Ava, 507, 636
 Axim, 661
 Azores Islands, 351, 354, 548, 563
 Baffin Island, 472
 Baghdad, 542, 621
 Bahama Islands, 494
 Bahama Strait, 472
 Baku, 621
 Balch, 651

Index of places

- Bali, 642
 Baltic Sea, 471
 Banda, 341, 614, 639
 Bantam, 641
 Barantola, 632, 652
 Barbary, 573, 580, 582
 Barca, 508
 Barsalli, 659
 Basra, 601
 Batavia, 641
 Baumann Cave, 527, 528
 Bavaria, 332, 350, 352
 Bay of Bengal, 471, 555, 640
 Bay of Biscay, 471, 488
 Bay of Bombay, 638
 Bay of Campeche, 471
 Bengal, 429, 471, 510, 555, 575, 603,
 639, 640, 645
 Benguela, 507, 657, 658
 Bergen, 601
 Berlin, 4, 156, 245, 409, 412, 416,
 420
 Bernina (mountain range), 525
 Bessarabia, 510
 Black Forest, 516, 585
 Black Sea, 472, 477, 493, 494, 546, 558
 Blocksberg (Brocken), 368, 541
 Bochnia, 483
 Boeotia, 494
 Bogota, 546
 Bohemia, 344, 421, 514
 Bohemian Forest, 516
 Bolderborn, 542
 Bologna, 175, 667
 Bordeaux, 320, 321
 Borneo, 472, 511, 576, 593, 613, 615,
 640
 Bosphorus, 493
 Brabant, 351
 Brandenburg, 344
 Brazil, 362, 502, 554, 568, 618, 624,
 669, 673
 Breisach, 585
 Bristol, 496
 Brittany, 560
 Buenos Aires, 674
 Bukhara
 Greater, 651
 Lesser, 503, 509
 Town of, 651
 Bulgaria, 665
 Buru, 585
 Cadiz, 484
 Cairo, 662, 663
 Calabria, 494, 613, 668
 Calais, 335
 California, 471, 476, 478, 508, 601
 Cambodia, 471
 Canada, 578, 594, 675, 676
 Canary Islands, 658
 Candia, 617
 Canton, 629
 Canton of Berne, 562
 Cape Blanco, 507
 Cape Comorin, 601
 Cape Faro, 494
 Cape Finistère, 334, 346
 Cape Negro, 573
 Cape Nun, 507
 Cape of Good Hope, 394, 458, 479,
 654–5
 Cape St Vincent, 334, 346
 Cape Verde Islands, 478, 569
 Capri, 609
 Carolina, 676
 Carpathian Mountains, 527, 529
 Cartagena, 558, 576, 605, 672
 Carthage, 666
 Caspian Sea, 480, 485, 487, 503, 544,
 651
 Catania, 535
 Caucasus, 515, 516, 519, 537
 Celebes, 472, 640
 Ceres, 726
 Cevennes (mountain range), 516
 Ceylon, 476, 560, 601, 613, 614, 615,
 643
 Chaldaea, 549
 Champagne, 617, 618, 668
 Chamsin, 551, 662
 Charybdis, 494, 668
 Chile, 331, 341, 554, 580, 609, 671
 Chimborazo (mountain), 453
 China, 382, 452, 479, 507, 509, 558,
 577, 579, 583, 585, 594, 600, 608,
 611, 615, 616, 619, 629–34, 635,
 652, 676
 China Sea, 552, 553, 652
 Chinese Tartary, 546, 616, 631
 Chios, 613
 Chukotsky, 676
 Circassia, 572, 608, 648
 Clermont, 669
 Cleve, 351

Index of places

- Coblenz, 547
 Cochinchina, 632
 Cologne, 351, 534
 Comorin, 638
 Congo, 573, 575, 593, 605, 657, 658
 Copenhagen, 602
 Cordillera Mountains, 357, 534, 543, 554
 Cork, 345, 349
 Cornwall, 621
 Coromandel Coast, 474, 558, 575
 Cracow, 622
 Cremona, 666
 Crete, 528, 549, 659, 666
 Crimean, 511
 Cuba, 472, 511
 Czernowitz, 666
- Dalland, 564
 Damascus, 666
 Damiatta, 559, 662
 Danube River, 511, 544, 546, 665, 666
 Danzig, 540
 Dardanelles, 472
 Davis Straits, 472, 499, 501, 577, 597
 Dead Sea, 480, 481, 485, 497, 621, 653
 Del Fuego (*see* Tierra del Fuego)
 Della Grotta, 350
 Denmark, 505, 581
 Derbent, 621
 Desert of Kerman, 452, 551
 Dimon, 670
 Dnepr River, 511, 516
 Dnestr River, 511
 Dogger Bank, 474, 513
 Dogs' Grotto, 528
 Dollart, 560
 Domingo (Santo Domingo), 511, 677
 Dominique, 677
 Don River, 511, 515, 516
 Dresden, 618
 Duchy of Carniola, 348
- East Indies, 491, 553, 577, 586, 589, 596, 603, 604, 605, 613, 614, 615, 673
 Egypt, 172, 173, 378, 504, 546, 548, 551, 557, 559, 582, 622, 662–3
 Elbe River, 344, 514
 Elbing, 413
 Eldorado, 673
 Elephant River, 507
- England, 333, 341, 350, 352, 371, 472, 474, 484, 508, 526, 554, 558, 560, 562, 582, 591, 609, 619, 621, 622, 668
 Epirus, 666
 Equator, 162, 247, 342, 377, 378, 379, 380, 381, 382, 383, 395, 454, 455, 456, 458, 459, 460, 461, 462, 463, 481, 548, 554, 555, 556, 557, 564, 565, 566, 633, 660
 Erserum, 653
 Erz Mountains, 516
 Estrella Mountains, 669
 Ethiopia, 378, 573, 599, 663, 664
 Ethiopian Ocean, 377, 552
 Etsch, 516
 Euboea, 497
 Euripus, 494, 497, 665
 Europe, 20, 327, 331, 336, 347, 349, 350, 351, 352, 353, 358, 435, 437, 451, 470, 471, 473, 474, 478, 503, 505, 507, 511, 513, 514, 515, 516, 520, 534, 547, 553, 558, 574, 584, 585, 588, 594, 616, 622, 629, 639, 656, 665–71, 674, 676
- Faeroe Islands, 670
 Faizza, 549
 Falkland Islands, 501
 Falun, 619
 Ferro, 459
 Fez, 345, 348
 Fichtel Mountains, 516
 Fingal's Cave, 528
 Finland, 344, 347
 Flanders, 562
 Flores Meridian, 459
 Florida, 471, 472, 494, 502, 613, 677
 Formosa, 576, 588
 France, 332, 345, 348, 350, 371, 378, 471, 472, 484, 493, 497, 542, 545, 558, 560, 561, 582, 609, 624, 662, 666, 668–9
 Frankfurt, 604
 Free Tartary, 503
 Friesland, 560, 562, 566
 Friuli, 620
 Fua, 559
 Funen, 472
- Gabon River, 578, 662
 Galicia, 483

Index of places

- Gambia, 573
 Gambia River, 595, 659–62
 Ganges River, 471, 544, 547, 558, 559, 623, 638
 Genoa, 484
 George Island, 506
 Georgia, 572, 648, 653, 676
 Gerdauen, 512
 Germany, 17, 120, 172, 332, 333, 347, 371, 412, 436, 516, 542, 558, 572, 604, 627, 668, 690, 709
 Gertuidenberg, 609
 Ghats Mountains, 558, 638
 Gibraltar, 349, 470, 471, 486, 492, 493, 500
 Gihon River, 544
 Glowson, 350
 Glückstadt, 333
 Gobi Desert, 509, 651
 Gold Coast, 547, 573, 660, 662
 Golfo di Genua, 471
 Golfo di Venezia, 471
 Golkonda, 623
 Gothenburg, 601
 Gothic Elbe, 669
 Gotland, 560, 564
 Gozzo, 549
 Great Bank, 600
 Great Britain, 511
 Great Wall of China, 629
 Greece, 516, 582, 663, 665–6
 Green Foothills, 659
 Greenland, 472, 494, 502, 505, 508
 Greenwich Meridian, 459
 Greta, 546
 Guadiana, 546
 Guanabalika, 542
 Guinea, 377, 491, 507, 547, 551, 554, 557, 558, 575, 576, 577, 579, 582, 590, 597, 604, 605, 608, 615, 618, 620, 659–62
 Gulf of Benin, 661
 Gulf of Bothnia, 175, 471
 Gulf of California, 471
 Gulf of Carpentaria, 471
 Gulf of Darien, 471
 Gulf of Finland, 471, 515
 Gulf of Gabes, 471
 Gulf of Guinea, 471
 Gulf of Honduras, 471
 Gulf of Mexico, 394, 471, 494, 502, 552, 554, 555, 626, 672
 Gulf of Panama, 471
 Gulf of Penschinski, 471
 Gulf of Siam, 471
 Gulf of Sidra, 471
 Gulf of Venice, 176
 Guyana, 672
 Haarlem, 609
 Haemus (mountain range), 516
 Halle, 409, 484
 Hamburg, 186, 388, 497
 Hanover, 371
 Harz Mountains, 516, 528
 Helgoland, 512
 Herculaneum, 533, 534, 535
 Hertford, 350
 Hessen, 534
 Hierro, 658
 Hindustan, 382, 504, 638–9
 Hispaniola, 613, 615, 672
 Holland, 333, 520, 560, 581
 Hormoz, 645
 Hotomni River, 546
 Hudson Bay, 471, 501, 506, 594, 674, 678
 Hudson Straits, 678, 679
 Hungary, 542, 582, 618, 619, 666
 Husum, 333
 Hwang Ho (Yellow River), 544
 Iceland, 330, 332, 336, 341, 502, 512, 534, 542, 670
 Idria, 620
 Imeretia, 648, 653
 India, 507, 508, 579, 603, 606, 610, 612, 615, 616, 617, 623, 634, 638, 643, 644, 653, 660, 676
 Indian Ocean, 341, 382, 394, 395, 472, 553, 554, 599
 Indus, 547
 Ireland, 345, 349, 362, 472, 502, 511, 542, 549, 582
 Isfahan, 452
 Italy, 177, 331, 332, 341, 343, 350, 352, 354, 362, 453, 470, 516, 528, 537, 542, 545, 606, 609, 614, 621, 626, 663, 666–8
 Jam Mountains, 652
 Japan, 382, 452, 507, 508, 542, 613, 619
 Japanese Seas, 382
 Java, 472, 593, 615, 641, 642

Index of places

- Jefata, 661
 Jordan River, 481
 Jura Mountains, 516
 Jutland, 474
 Jutland Peninsula, 472
- Kalmuck, 507, 509, 614
 Kamchatka, 471, 502, 506, 583, 594,
 595, 597, 650, 653, 676
 Kandahar, 452, 509
 Karakorum, 651
 Karlsbad, 542
 Kashmir, 435, 572, 639
 Kastanea, 666
 Kattegat, 493
 Katwijk, 546
 Kharasm, 651
 Kiev, 671
 Kurile Islands, 597
 Kurland, 489
- Labrador, 472
 Labyrinth, 528, 666
 Ladrone Islands, 563, 610
 Lake Aral, 544
 Lake Como, 348
 Lake Constance, 546
 Lake Drausen, 179
 Lake Erie, 676
 Lake Geneva, 546
 Lake Meiningen, 348
 Lake Ontario, 676
 Lake Ralangen, 512
 Lake Zirknitz, 348
 Languedoc, 668
 Lapland, 452, 558, 582, 605, 667, 669,
 678
 Le Maire Straits, 671
 Lebanon, 99, 168, 627, 653
 Leipzig, 412
 Lemnos, 626, 665
 Levant, 471, 493, 614
 Leyden, 546, 609
 Libyan Desert, 581
 Liegnitz, 626
 Lilienthal, 722
 Lima, 357, 557
 Lisbon, 327, 330, 331, 333, 337, 338,
 344, 345, 349, 350, 353, 365, 531,
 532
 Lithuania, 528
 Loire, 543
- Lombardy, 343
 London, 256, 369, 497, 508, 520, 592
 Lorraine, 351
 Louisiana, 502
 Lucerne Valley, 667
- Macassar, 640
 Macau, 568
 Macedonia, 665, 666
 Madagascar, 383, 472, 511, 618,
 657
 Madeira, 617, 659
 Madrid, 344
 Maelstrom (Moskestrem), 494
 Magdeburg, 371, 409, 412
 Magellan Land, 671
 Main River, 547
 Mainz, 547
 Malabar, 479, 558, 617, 633, 638
 Malacca, 471, 619, 634
 Malacca Peninsula, 634
 Malaga, 352
 Maldives, 513, 644
 Male, 513
 Malta, 549, 626, 668
 Malvinas (*see* Falkland Islands)
 Manila, 395, 568
 Mar del Nord, 478
 Martin's Cave, 527
 Martinique, 531, 614
 Maryland, 676
 Matamba, 658
 Mecca, 504, 612, 646, 647, 648
 Mecklenburg, 345
 Media, 666
 Medina, 504, 646, 647, 648
 Mediterranean, 344, 346, 350, 354, 356,
 389, 470, 471, 472, 480, 481, 486,
 487, 491, 492, 493, 512, 516, 601,
 609
 Meiningen (*see also* Lake Meiningen),
 344, 348
 Meliapur, 575
 Menam River, 634
 Messina, 494, 525, 668
 Mexico, 476, 611, 612, 616
 Milan, 345, 347
 Milos (Melus), 665
 Mindanao, 394
 Mingrelia, 572, 648, 653
 Mississippi River, 391, 544, 559,
 676

Index of places

- Mitau, 413
 Mocha, 646
 Modena, 562, 563, 609, 667
 Moluccan Islands, 479, 585, 610, 614, 639
 Mongolia, 509, 544, 572
 Monomotapa, 507, 657, 677
 Montefiascone, 667
 Moravia, 421
 Moravian Mountains, 516
 Morea, 516, 665
 Morocco, 508, 509
 Moscow, 459
 Moselle, 547
 Mt. Athos, 665
 Mt. Cenis, 667
 Mt. Cotopaxi, 534
 Mt. Etna, 372, 525, 532, 533, 534, 537
 Mt. Hekla, 534
 Mt. Ida, 666
 Mt. Parnassus, 15
 Mt. Pic du Midi, 320
 Mt. Pilatus (Mons Pileatus), 526, 527
 Mt. Roche Melon, 667
 Mt. Vesuvius, 333, 345, 353, 532, 533, 534, 535, 667
 Musquat, 646
- Nanking, 629
 Naples, 333, 345, 359, 373, 528, 533, 536, 558, 609, 617, 667
 Natal, 507, 656
 Neckar, 547
 Negroponte, 494, 665
 Nerchinsk, 650
 Netherlands, 351, 371, 394
 Neuchâtel, 344, 348
 Neusohl (Besterczo), 542, 619
 New Britain, 471
 New Cartagena, 551
 New Guinea, 473, 572
 New Holland (Australia), 383, 470, 473, 505, 575, 578, 642
 New Mexico, 471
 New Spain, 589, 601, 603
 Newcastle, 622
 Niagara River, 546
 Nicobar Islands, 590, 642
 Niger River, 504, 544, 546
 Nigritia, 509
- Nile River, 172, 391, 448, 487, 493, 544, 546, 547, 559, 662, 663
 Normandy, 668
 North America, 351, 435, 472, 508, 515, 546, 558, 673, 678–9
 North Cape, 558, 596, 601
 North Pole, 358, 383, 461, 462, 499, 555
 North Sea, 175, 335, 345, 347, 351, 394, 492
 Norway, 335, 344, 347, 474, 494, 502, 505, 516, 558, 593, 600, 670
 Novaya Zemlya, 501, 506, 510, 678, 679
 Nubia, 507, 663
 Numidia, 666
- Ob River, 544
 Ochakovian Steppe, 511
 Ophir, 508
 Orinoco River, 672
 Orkney Islands, 601
 Orléans, 668
- Pacific Ocean, 384, 394, 395, 487, 493, 543, 551, 557, 742
 Pactolus River, 547
 Palembang, 641
 Palermo, 603
 Palma, 610, 658
 Panama, 394, 471, 487, 548, 554, 672
 Panamanian Peninsula, 605
 Pangaeus, 516
 Paraguay, 671, 673, 674
 Paris, 316, 320, 347, 402, 473, 516, 529, 543, 668, 678
 Parnassus (*see* Mt. Parnassus)
 Patagonia, 472, 575
 Pegu, 636–7
 Peking, 629, 631, 632
 Pennsylvania, 676
 Persia, 382, 395, 452, 471, 507, 509, 546, 548, 549, 550, 551, 558, 581, 583, 617, 621, 638, 645–6, 647, 650, 664, 666
 Persian Gulf, 471, 472, 551, 601, 645, 646
 Persian Ocean, 382
 Peru, 331, 341, 352, 354, 357, 360, 362, 363, 369, 505, 509, 516, 522, 535, 542, 543, 554, 557, 563, 616, 618, 671, 672, 673

Index of places

- Philadelphia, 460
 Philippine Islands, 506, 551, 555
 Picardy, 351, 668
 Pico Mountain, 519, 525, 659
 Piemont (Piedmont), 667
 Piemontese Mountains, 667
 Plate River, 480, 546
 Po River, 545, 560
 Poland, 371, 475, 526, 531, 582, 593,
 609, 619
 Polar Circles, 462, 463, 555
 Pompeii, 533
 Pontus, 666
 Popayan, 672
 Porto Bello, 549, 608
 Portugal, 327, 333, 334, 345, 346, 349,
 351, 352, 354, 362, 568, 636, 664,
 669
 Potosi, 619, 671
 Potsdam, 412
 Pregel River, 401
 Preussisch-Holland, 179
 Providence Straits, 473
 Prussia, 172, 177, 179, 332, 409, 436,
 475, 489, 500, 512, 531, 532, 540,
 560, 582, 610
 Pyrenees, 515, 516

 Quaqua Coast, 660
 Quebec, 676
 Quito, 522, 557

 Ravenna, 175
 Red Sea (*see also* Arabian Sea), 176, 471,
 472, 477, 487, 513, 553, 646, 657,
 663
 Regensburg, 433
 Reggio, 603
 Reichenau, 624
 Rhine River, 172, 176, 332, 351, 516,
 524, 534, 544, 545, 546, 547, 558,
 561, 585, 617
 Rhodope (mountain range), 516
 Roche-Monsina, 536
 Rome, 625
 Rosetta, 559, 662
 Roussillon, 352
 Russia, 452, 471, 481, 506, 507, 515,
 516, 589, 670–1

 Sahara Desert, 509, 514
 Saint Lawrence River, 544

 Salzburg, 575, 583
 Samarkand, 651
 Samiel, 551
 Sandwich Islands, 597
 Santorini, 354, 666
 Saratov, 481
 Sargasso Sea, 494
 Savoy, 667
 Savoy Mountains, 667
 Saxony, 172, 362, 456, 542
 Schaffhausen, 545
 Schleswig-Holstein, 333
 Scotland, 497, 502, 517, 528, 601,
 602
 Sczelicza Cave, 529
 Sea of Azov, 472
 Sea of Japan, 552
 Sea of Marmora, 472
 Sea of Paderborn, 542
 Seine River, 347, 543
 Senegal, 575, 612, 619, 677
 Senegal River, 544, 546, 573, 582, 659,
 665
 Senegambia, 509
 Serbia, 626, 665
 Sessa, 536
 Setubal, 349
 Seville, 615
 Sewo Mountains, 516
 Shiraz, 645
 Siam, 471, 549, 561, 578, 579, 613,
 634–6
 Siberia, 501, 502, 529, 558, 562,
 577, 582, 648–50, 674, 676,
 678
 Sicily, 373, 494, 512, 525, 668
 Sierra Leone, 552, 575, 660, 661, 677
 Silver River, 671
 Sin Desert, 647
 Slains, 528
 Smyrna, 356
 Sofala Coast, 656
 Solfatara, 622, 667
 Solomon Islands, 506
 Solor, 643
 South America, 362, 472, 508, 543, 546,
 613, 619, 671–4
 South Pole, 383, 458, 460, 462, 499,
 554, 555, 556, 559
 South Sea, 512
 Southern Ocean, 383, 391, 473, 551,
 559

Index of places

- Spain, 334, 346, 349, 350, 352, 354, 471, 493, 577, 582, 588, 614, 620, 669
 Spitsbergen, 502, 506, 510, 525, 593, 596, 597, 678
 Spoleto, 626
 St. Christopher (St. Kitts), 677
 St. George's Channel, 472
 St. Helena, 553
 St. Mark's Square, 175
 St. Michael, 354
 St. Thomas, 611
 St. Vincent, 677
 Staaten Island (Statenland), 473, 671
 Stabiä, 533, 536
 Staffa, 528
 Strait of Mozambique, 472
 Straits of Babelmandab, 472
 Straits of Caffa, 472
 Straits of Calais, 560
 Straits of Constantinople, 472, 481
 Straits of Macassar, 472
 Straits of Magellan, 472, 501
 Straits of Malacca, 472, 634
 Straits of Messina, 668
 Straits of Sunda, 472
 Styx River, 665
 Suakin, 663
 Sudeten Mountains, 516
 Sudetes Mountain, 476
 Suez, 646
 Suez Isthmus, 487
 Sumatra, 472, 485, 511, 515, 549, 579, 593, 615, 641, 642
 Sunda Islands, 472, 493, 640–2
 Surinam, 584, 614, 673
 Swabia, 332, 343, 350
 Sweden, 341, 344, 347, 471, 472, 505, 512, 515, 516, 558, 562, 601, 669
 Switzerland, 332, 342, 344, 345, 347, 351, 372, 515, 516, 517, 524, 525, 527, 542, 545, 626, 627, 663, 666, 667
 Syracuse, 14
 Syria, 551, 558, 587
 Syrian Desert, 509

 Table Mountain, 541, 552, 656
 Tabriz, 645
 Tagus River, 349, 356
 Tangut, 652
 Taranto, 603
 Tartar Mountains, 638
 Tartary (*see also* Chinese Tartary and Free Tartary), 471, 614, 646, 648, 649, 664, 665
 Temperate Zone, 174, 378, 381, 463, 489, 521, 534, 548, 572, 576, 577, 678
 Templin, 335, 344, 345
 Tenerife, 609, 659, 663
 Ternate, 639
 Terreneuve, 513, 600
 Thames, 547
 The Great Belt (Strait), 472
 The Little Belt (Strait), 472
 The Sound, 472, 492
 Thebes, 172
 Thrace, 493
 Thuringian Forest (mountain range), 516
 Tiber River, 558
 Tibet, 504, 507, 509, 514, 622, 632
 Tierra del Fuego, 671
 Tigris River, 471, 546, 547
 Timor, 643
 Tivoli, 512
 Tobolsk, 649, 650
 Toledo, 542
 Tonkin, 604, 632, 633, 634
 Torrid Zone, 382, 391, 463, 521, 547, 554, 555, 556, 557, 558, 565, 572, 573, 574, 576, 608, 610, 617, 633, 638, 646, 674
 Touraine, 561, 668
 Transylvania, 622
 Tripoli, 471
 Tripolis, 508
 Tropic of Cancer, 507, 573
 Tropic of Capricorn, 383
 tropics, 380, 381, 383, 391, 462, 463, 493, 522, 553, 554, 555, 556, 576, 579, 599
 Tschanaï Desert, 509
 Tuam, 362
 Tunguska River, 546
 Tunis (Tunisia), 471, 508
 Turin, 420
 Turkestan, 651
 Turkey, 581, 614, 653, 665
 Tyrol, 332, 350, 525, 575
 Tyrolean Mountains, 350
 Tyrrhenian Sea, 584

Index of places

- | | |
|--|--------------------------------|
| Ulm, 343 | White Sea, 471 |
| Umbra, 626 | Whitehaven, 350 |
| Ural Mountains, 516 | Wieliczka, 483, 526 |
| Uri, 562 | |
| | Xamo Desert (Gobi Desert), 651 |
| Velino River, 545 | |
| Venice, 175, 176, 497 | Yakutsk, 649, 650 |
| Vesuvius, 536 | Yarmouth, 601 |
| Vienna, 619 | Yenisei River, 544, 670 |
| Virginia, 549, 573, 589, 676 | Yeniseisk, 649, 650 |
| Visapur, 623, 638 | Yorkshire, 350, 546 |
| Vistula River, 172 | Yucatan Peninsula, 471 |
| Volga River, 481, 487, 515, 516, 651,
671 | Yugan River, 649 |
| Vosges Mountains, 516 | |
| | Zanzibar, 507 |
| West Indies, 347, 502, 551, 605, 607 | Zealand, 472 |
| Westphalia, 351, 371 | Zierikzee, 609 |
| Whidah (Fida), 605, 662 | Zuiderzee, 601 |
| | Zwickau, 530 |

Index of subjects

-
- a priori
 cognition, xiii, xv, 52
 principles, xv
- acceleration, 150, 160, 213, 255, 686,
 694, 697, 698, 699, 700, 704,
 707
- accident, 345
 of matter, 197, 198, 199, 498
 of nature, 282, 574
- acid, 180, 343, 482, 483, 484, 525, 542,
 548, 551, 714, 729
 as active principle, 324–5
 kinds of, 482
 vitriolic, 327, 333, 424, 622,
 627
- action
 absolute, 110
 and location, 28
 and reaction, 59, 64, 396, 397, 403,
 407
 and rest, 23, 24, 29, 32, 133, 397,
 403, 404, 407
 complete, 62, 91
 concept of, 22, 101
 internal, 31, 32, 298
 measurement of, 113
 moment of, 23, 24, 35, 36
 of a force, 27, 31, 45, 61, 79, 138
 of a lever, 91
 of a spring, 44, 47, 50, 55, 98, 108,
 109, 149
 of gravity, 78–9, 81, 91, 113, 142,
 152–3, 700
 of the soul, 24–5, 298,
 299
 of water, 162, 513, 528, 560, 564,
 566, 618
 quantity of, 31, 32, 91
 reciprocal, 25, 287, 333,
 456
- actuality
 of motion, 38–40
- ether, 318, 319, 320, 322, 324, 326,
 412, 713
- ageing
 concept of, 170
 of the Earth, 168, 173, 179, 180,
 181
 of the universe, 174, 271
- aggregate, 538
 of forces, 31, 73
 of particles, 312, 313
see also composite
- air
 and fire, 275, 276, 309, 318, 529
 density of, 323, 325, 353, 359, 376,
 377, 412, 429, 516, 518, 519,
 520, 548, 554, 556
 elasticity of, 180, 196, 276, 318,
 323, 359, 376, 412, 520, 550
 nature of, 196, 323–5
 pressure of, 320, 321, 377, 430
 properties of, 196, 548–9
 resistance of, 378, 520
 separation of, 171
 subterranean, 332, 335, 348, 352,
 353, 369, 528
- Almighty, 265, 285, 292
see also Architect, Author, Creator,
 Deity, Divine, God, Highest
 Being, *and* Providence
- analogy
 argument from, 183, 185, 217, 219,
 220, 221, 238, 260, 264, 268,
 300, 302
 Kepler's, 212
- animals, 580–610
 and earthquakes, 335
 and epidemics, 433
 and human nourishment, 510
 and mating, 580, 581, 588
 beautiful, 504, 581, 594, 599
 creation of, 269
 destruction of, 170, 258, 269
 domestic, 517, 582, 583, 584, 585,
 589, 590, 591
 influence of the environment on,
 577

Index of subjects

- marine, 392, 423, 480, 538, 595,
 596, 598, 600, 601, 602, 627
 petrified, 341, 392, 561, 627
 respiration of, 352
 senses of, 530, 532
 transportation of, 500, 577, 582,
 594
 venomous, 549, 615
see also creatures
- anthropology, xv, xvi, 434, 445, 446
 antinomies, 426
 Architect, 222
see also Almighty, Author, Creator,
 Deity, Divine, God, Highest
 Being, *and* Providence
- architectonic, 446
 arithmetic, xv, xvi, 486
 art
 of deduction, 48
 of guessing, 85
 of navigation, 567–9
 of printing, 632
 of thinking, 83
- astrology, 645
 astronomy, 219, 253, 401, 549, 631
 atheist, 194, 198, 653
 atmosphere, 558–9
 and earthquakes, 335, 357, 359,
 368, 371, 532
 and fluidity, 376
 and rain, 343, 357, 468, 564
 and volcanoes, 358, 361
 and water, 468, 484
 and wind, 276, 343, 378, 380, 431
 influence of the Moon, 426, 429,
 432
 kinds of, 413
 of comets, 185, 240
 of Saturn, 249
 of the Moon, 421, 466
 of the Sun, 275, 276, 467
 pressure of, 321, 346, 547
 temperature of, 376–8
 weight of, 321
 wind, 376–8
see also air
- atom, 198, 233, 269, 282, 297, 425,
 701
see also corpuscles *and* particles
- attraction
 concept of, 262, 498
 equality of, 228
 force of, 204, 217, 226, 287, 320,
 432, 498
 laws of, 197, 253, 453
see also gravity
- Author, 194, 195
see also Almighty, Architect,
 Creator, Deity, Divine, God,
 Highest Being, *and*
 Providence
- axis
 cause of rotation around, 157, 243,
 244, 245
 of the Earth, 156, 160, 252, 292,
 378, 454, 456, 457, 461, 462,
 529, 555, 566
 of the Moon, 163
 shifting of, 246, 247
- barometer, 320, 359, 381, 384, 429,
 430, 432, 518, 520, 722, 729,
 737
- beauty, 94, 172, 181, 637, 647, 651
 of the Earth, 168, 171, 278
 of the universe, 186, 194–5, 197,
 260, 263, 267, 280–2, 285,
 292, 297, 305
- bodies
 celestial, 184, 194, 268, 271, 274,
 275, 289, 291, 296, 305, 306,
 308, 369, 424, 425
 elastic, xvi, 6, 47, 48–51, 52, 53, 59,
 68–9, 110, 145–6, 315–17,
 406, 408
 force of, 5, 22–33, 34, 40, 56, 59,
 135, 318
 hard, xvi, 49, 51, 405, 406
 inelastic, xvi, 51–2, 53–4, 63–8, 70
 natural, 121–2
 shape of, 143
 soft, xvi, 6, 140
 solid, 97, 144, 313–15, 333, 334,
 465, 466, 468
- body
 concept of, 121
 human, 16, 551
- boiling, 317, 318, 319, 320, 325,
 360
 moment of, 318
- burning, 181, 186, 234, 242, 272, 275,
 277, 317, 324, 325, 326, 355, 371,
 372, 373, 378, 429, 530, 534, 536,
 614, 632, 636, 642, 675

Index of subjects

- capacity
 attractive, 213, 266
 creative, 263
 of a body, 90, 122, 131, 135, 319
 of nature, 196, 282
 of understanding, 16, 222, 340
see also faculty of thinking *and*
 power
- cause
 and effect (*see* equality: of cause and
 effect)
 common, 226, 345, 357
 efficient, 91, 92, 93, 105
 external, 104, 121, 122, 125, 126,
 128, 129, 135, 136, 146, 147,
 156, 160, 161, 245, 262, 358
 first, 199, 200, 287, 290, 376, 380
 natural, 195, 196, 286, 636, 671
 of change in Earth's rotation, 156,
 163
 of earthquakes (*see* earthquakes:
 cause of)
 of eccentricity of orbits (*see*
 eccentricity of orbits: cause of)
 of elasticity (*see* elasticity: cause of)
 of force (*see* force: cause of)
 of gravity (*see* gravity: cause of)
 of motion (*see* motion: cause of)
 of salinity of sea water (*see* salinity
 of sea water: cause of)
 of tides (*see* tides: cause of)
 quantity of (*see* quantity: of cause)
 total, 2
 universal, 247
see also ground *and* origin
- caverns
 air in, 276, 348, 352, 353
 of the Sun, 277
 origin of, 330
- center
 of the Earth, 340, 529, 530, 537,
 565, 716
 of the solar system, 297, 300
 of the universe, 265
- centrifugal force, 80, 170, 217, 229, 245,
 248, 251, 253, 255, 257, 259, 264,
 454, 456, 529
- centripetal force, 212, 692, 707
- certainty
 empirical, 431
 geometrical, 84
 mathematical, 330
- of the existence of God, 198, 250,
 281
- chance, 197, 198, 199, 280, 282, 291,
 292
see also accident
- chaos
 as initial state of the universe, 182,
 228
 regularity in, 199, 200, 228, 250
 terrestrial, 170, 171, 330, 565
- character
 of fluidity, 313
 of laws, 70, 215
 of living force, 130
 of people, 452, 510
 three-dimensional, 27
- chemistry, xvi, xvii, 433, 442, 482, 618,
 683
- choice, 290
 God's, 209, 233, 264, 284, 288,
 291
- Christianity, 633
 Roman Catholic, 652
 conversion to, 655, 677
 occidental vs. oriental, 452
- civil society, 452
- civilization, 576, 671
- classification, xvii, 448
- climate, 389, 558–9
 hot, 482, 489, 566
 temperate, 249, 303, 639
- coexistence, 262
- cognition
 faculty of, 307
 obscure, 307
 universal, xiv, 299
see also knowledge
- cohesion, 151, 153, 255, 312, 315, 317,
 406, 529
- cold
 causes of, 23, 358, 524, 527
 celestial bodies, 274
 effects of, 317
 regions, 480, 489, 510, 679
 winds, 558, 640
- collision
 elastic, 6, 55, 58–9, 83, 110, 145
 inelastic, 6, 54, 63–4, 66–7, 68
 moment of, 52, 403
- colour
 of humans, 572–5
 of sea water, 477, 479

Index of subjects

- comets
 and extraordinary events, 181
 and Noachian flood, 564
 as defects of nature, 285
 atmosphere of (*see* atmosphere: of comets)
 constitution of, 227
 density of, 238, 242
 mass of, 185, 241
 orbits of, 212, 214, 222, 239, 241, 467
 origin of, 238–43
 same in kind as planets, 184, 238
 size of, 242
 common sense, 331, 400, 451, 564
 community
 of influence, 226
 of motion, 226, 241
 of people, 388, 506
 of the Highest Being, 279
 composite
 forces, 76, 88
 motions, 20, 73, 80, 81, 86
see also aggregate
 compression
 of a spring, 50, 51, 55, 59, 81–2, 97, 112, 114
 of bodies, 65, 66, 67, 315, 316
 compulsion, 282, 292
 conatus, 689, 693
 concept
 mathematical, 88, 94, 129, 453–67
 metaphysical, 22, 31
 of action (*see* action: concept of)
 of ageing (*see* ageing: concept of)
 of attraction (*see* attraction: concept of)
 of body (*see* body: concept of)
 of finite time, 111
 of force, 25, 122
 of inelastic body, 64
 of inertia, 405–6
 of kinetic energy, 2
 of matter, xiii
 of motion, 397, 407–8
 of science, xiv–xv
 pure, xviii
see also ideas *and* representation
 conflagration, 177, 327, 332, 337, 342, 343, 344, 351, 352, 353, 354–5, 362, 371
see also fire *and* phoenix of nature
 connection
 and order, 28, 197, 217, 250
 and worlds, 26, 28
 harmonious, 28, 197, 199, 250
 of planets, 214, 215
 of substances, 5, 25, 26
 spatial, 26, 28
 systematic, xiv, 262, 264, 446
 conservation, xiii, 6, 55, 133, 146
 law of, 1, 2
 constitution
 of a force, 125
 of comets (*see* comets: constitution of)
 of matter, 279
 of space (*see* space: constitution of)
 of suns, 186
 of the Earth, 168, 170
 of the universe, 200, 201, 204, 208, 214, 215, 280, 284
 systematic, 183, 211–14, 215–23, 241, 248, 261, 262, 266, 268, 269
 contact
 forces, 70, 309
 point of, 141, 322
 with people, 446, 447
 contingency, 131–2, 143, 181, 690
 continuity
 law of, 38, 92, 111, 126, 134, 155, 397, 405–6, 606
 corpuscles, 312, 314, 689
see also atom *and* particles
 cosmogony, xiii, 164, 187, 198, 300, 424
 cosmology, xvi, 201, 446
 cosmos, 57, 404
see also universe *and* world
 creation
 as continuous process, 262, 264, 266, 267
 biblical story of, 203, 258, 409, 564
 center of, 265, 266, 268, 279
 duration of, 168, 217
 extent of, 221, 222, 270, 296, 297
 of matter, 228
 of plants and animals, 201
 of the universe, 205

Index of subjects

- creation (*cont.*)
 plan of, 220
see also origin
- Creator, 215, 270, 298, 340, 689
see also Almighty, Architect, Author,
 Deity, Divine, God, Highest
 Being, *and* Providence
- creatures
 natural ratio of bodily properties
 of, 209, 301
 origin of, 198
 rational, 291, 292, 301
 relationship to God, 251, 279
see also animals *and* plants
- Critique of Pure Reason*, xiii, xiv, xv, xvii
- current
 of air, 377, 380, 381
 of water, 161, 487
- custom, 388, 452, 520, 629–30, 631,
 642, 655, 662
- cylinder, 147, 148, 149, 150
- dead, 84
 force, 5, 30, 36–7, 38, 39, 40, 41,
 87, 125, 126, 148
 pressure, 19, 30, 31, 32, 35, 58, 86,
 87, 88, 133
- death
 fear of, 342
 life after, 632, 636, 645, 654
- defect, 285
- deficiency, 162, 239, 269
- Deity, 263, 279, 282, 605, 632, 643,
 650, 652, 654, 657
see also Almighty, Architect,
 Author, Creator, Divine, God,
 Highest Being, *and*
 Providence
- density
 of air (*see* air: density of)
 of comets (*see* comets: density of)
 of planets, 184, 232–8
 of water, 548
- dependence
 on God, 197, 250, 279
 reciprocal, 262, 287
see also independence
- description
 natural, xvii, 337–64
- desire
 for happiness, 363
 for knowledge, 215, 307, 505, 506
- destiny, 270, 363, 400
- determinations
 of force, 36, 39, 63, 125, 130, 147
 of motion, 38, 88, 122, 283
 essential, 280, 305
 of nature, xvi, 282, 286, 293, 304
see also properties
- dimensions
 of force, 39, 40
 of space (*see* space: dimensions of)
- direction
 and force, 29, 53, 76–7, 82, 136,
 212
 oblique, 76–7, 86
 of force, 29–30
 of motion of earthquakes, 328, 330,
 337, 350, 531
 of orbit, 186, 201, 212, 226, 230,
 231, 235, 241, 243, 244,
 287
 of tides, 157, 161, 475
 of winds, 374, 377, 382, 384–5,
 478, 493, 550, 554, 555, 556,
 557
- dispersion
 of cometic vapors, 242
 of matter at the beginning of the
 universe, 198, 262, 268
- distillation, 468, 469, 483, 484, 485,
 486, 543
- Divine
 existence, 263
 idea, 228, 251, 304
 omnipotence (*see* omnipotence)
 presence, 261, 265, 266
 properties, 263, 282
 providence (*see* Providence)
 punishment, 327
 reason, 197, 228
 understanding, 304
 will, 288
 wisdom, 292, 363
 works, 271
see also Almighty, Architect,
 Author, Creator, Deity, God,
 Highest Being, *and*
 Providence
- division
 logical, 448
 of day and night, 303
 of knowledge, 448
 of matter, 312

Index of subjects

- duration
 indefinite, 110
 of a world, 269, 270
 of creation (*see* creation: duration
 of)
 of force, 129
 of motion, 38, 110, 111, 133
 of orbit, 213, 219
see also permanence
- dynamics, 103, 128, 132
 Leibnizian, 107
- earthquakes, 327–36, 337–64, 365–73,
 529–32, 536–7
 cause of, 328, 332, 335, 530, 536,
 537
 fear of, 330, 332
 motion of, 331, 337, 347, 353, 355,
 356, 357, 531
 prediction of, 369
- eccentricity of orbits
 cause of, 184, 238–43, 250
 law of, 222, 240
- eclipse
 plane of, 207
 prediction of, 631
- education, 181, 182, 676
- effect
 and action, 120
 equal to cause, 2, 326
- elasticity
 and living force, 50, 59
 and mathematics, 65
 cause of, 53
 of air (*see* air: elasticity of)
 of fire, 317, 534
see also bodies, force, matter
- electricity, 180, 328, 373, 499, 521, 526,
 532, 534, 536, 551
- elements, 170, 171, 228, 230, 266, 305,
 565
see also bodies, collision, force,
 matter
- empirical
 certainty (*see* certainty: empirical)
 intuition, xv
- endeavor
 to act, 23, 29, 30
 to expand, 66
- energy, 2, 5, 686, 687, 694, 695, 697,
 698, 699, 700, 701
- entelechy, 22, 65, 688, 689
- entity
 composite, 26
 independent, 25, 690
- epidemic, 433, 662, 741
- equality
 of action and reaction, 59, 396,
 403, 407
 of attraction (*see* attraction: equality
 of)
 of cause and effect, 48, 51, 69, 403
 of forces, 72, 81, 116, 214, 229,
 232, 239, 292, 408
 of time, 116
- equilibrium
 and gravity, 79, 206
 laws of, 171, 348, 381
- essence
 of matter, 217
 of nature, 270, 363
- eternity, 31, 263, 264, 265, 266, 267,
 269, 271, 272
- evaporation
 of planets, 256, 257
 of water, 174, 480, 486, 492
- evil, 303, 327, 331, 363, 368
 exhalations, 321–3, 358, 361
see also vapors
- existence
 of a world spirit, 180
 of God, 208, 250, 282, 327
 of human beings, 297
 of many worlds, 26
see also actuality
- experience
 confirmation from, 132, 134, 374,
 378, 380, 384, 429
 knowledge from, 445, 448
 of motion, 161, 342
 special, 56
- experiments
 Galvanic-Voltaic, 468, 469
 of Boerhaave, 178
 of Carré, 334
 of Galileo, 2
 of Hales, 178, 276, 323
 of Lémery, 372
 of Newton, 319
 of the Florentine Academy,
 321
- extension, 1
 and force, 22, 26, 27, 105
see also space

Index of subjects

- faculty of thinking, 299
 faith, 194
 Christian, 655
 fermentation
 kinds of, 482
 subterranean, 333, 344, 353, 357,
 359, 371
 fire
 elasticity of (*see* elasticity: of fire)
 force of, 312, 319, 320, 323, 324
 lunar, 421, 422
 matter of, 309, 317–26
 solar, 276
 subterranean, 335, 341, 346, 347,
 351, 352, 355, 357, 361, 368
 see also heat *and* phoenix of nature
 flame, 274, 275, 276, 277, 309, 319,
 325–6, 333, 621
 see also fire
 fluidity
 and atmosphere (*see* atmosphere:
 and fluidity)
 and living force, 144–5
 see also bodies
 force
 absolute, 109, 110
 action of (*see* action: of a force)
 active, 2, 5, 22, 23–4, 25
 attractive (*see* attraction: force of)
 Cartesian, 81, 122
 cause of, 93
 concept of, 686
 conservation of, xiii, 6, 55, 146
 contact (*see* contact: forces)
 centrifugal (*see* centrifugal force)
 centripetal (*see* centripetal force)
 dead (*see* dead: force)
 definition of, 22, 29, 122, 127
 descending, 229
 dimensions of (*see* dimensions: of
 force)
 direction (*see* direction: and force)
 duration of (*see* duration: of force)
 elastic, 49, 52, 53, 60, 61, 62, 64,
 97, 118, 275, 276, 302, 318,
 320, 324, 407
 extension (*see* extension: and force)
 finite, 78, 79, 81, 109, 142, 406
 indeterminacy of, 29, 693
 infinite, 81, 263
 lowering, 213
 magnitude of, 51, 52, 59
 mathematics of, 40, 41, 64, 94,
 121
 moment of, 150, 702
 motive, 2, 3, 22, 245, 432
 of inertia, 397, 400, 403, 404
 quantity of, 55–6
 repulsive, 182, 198, 229, 323
 tangential, 200, 214, 223, 229, 244,
 247, 254, 255, 256, 257, 259,
 262, 268, 274, 283, 284, 287,
 292
 tensile, 59, 105, 108, 109, 116, 150
 vivification of, 6, 126–8, 132, 133,
 134, 135
 see also living force
 freedom
 of God's choice, 284
 of motion, 161, 214, 237, 238, 357
 of understanding, 15, 79
 friction, 2, 157, 480
 fulcrum, 42, 89, 96, 98, 699, 700
 geography
 different kinds of, 386, 388, 449
 geometry
 definition of, xvi
 God's use of, 285
 higher, 212
 see also certainty *and* necessity
 God
 and creation of the world, 168, 222,
 262, 270
 and geometry (*see* geometry: God's
 use of)
 choice of (*see* choice: God's)
 dependence of nature on (*see*
 dependence: on God)
 direct hand of, 57, 186, 194, 227,
 281, 284, 292
 existence of (*see* existence: of God)
 immutability of, 1
 infinity of, 262
 perfection of, 186, 269, 273, 305
 presence of (*see* Divine: presence)
 understanding of (*see* Divine:
 understanding)
 vengeance of, 327, 363
 wisdom of (*see* Divine: wisdom)
 see also Almighty, Architect,
 Author, Creator, Deity,
 Divine, Highest Being, *and*
 Providence

Index of subjects

- government
 Divine, 194
 of laws of nature, 196
- gravity
 action of (*see* action: of gravity)
 and equilibrium (*see* equilibrium:
 and gravity)
 and living force, 77, 139
 cause of, 428, 692, 694
 law of, 370, 429, 454
 moment of, 406
 quantum of, 213
 specific, 247, 249, 319, 492,
 562
 see also acceleration, force, pressure,
 and resistance
- ground
 and consequent, xiv
 complete, 27
 God as, 282
 internal, 32
 mechanical, 201
 of dead force, 37
 of heat and cold, 23
 see also cause
- happiness
 desire for (*see* desire: for happiness)
- harmony
 pre-established, 25, 685, 690
 reciprocal, 282
 universal, 147
- heat
 as a condition of life, 277, 297
 ground of (*see* grounds of heat and
 cold)
 in the Earth, 337, 344, 348, 355,
 360, 361, 372
 matter of, 313, 318, 319, 424
 of the Sun, 184, 185, 196, 242,
 342
- Highest Being
 community of the (*see* community:
 of the highest being)
 see also Almighty, Architect,
 Author, Creator, Deity,
 Divine, God, and Providence
- history
 ancient, 354, 392, 451, 562, 565,
 632
 and geography, 447, 448, 449, 450,
 451
- natural, xvii, xviii, 163, 388, 442,
 443, 450
 of earthquakes, 330, 354
- human
 being, 18, 157, 168, 172, 183, 197,
 270, 298, 307, 360, 445, 446,
 572–80
 body (*see* body: human)
 concepts, 222
 ideas, 298, 299
 knowledge, 16, 20, 33
 nature, 181, 299, 301, 307, 504
 race, 160, 169, 345, 361, 363, 364,
 535, 633
 reason, 22, 34, 42, 117, 128,
 194
 soul, 24, 300, 307
 spirit, 265
 survival, 160
 understanding, 14, 15, 16, 17, 48,
 84, 85, 268
 see also humans and race
- humans
 different tastes of, 579–80
 form and color of (*see* color: of
 humans)
 see also human
- hypothesis
 Hartsoecker, 176
 Huygens's, 251
 nebular, 184
 Newton's, 252
- ideas
 human (*see* human: ideas)
 role in science (*see* science: role of
 ideas in)
 see also concept and representation
- idols, 576, 635, 642
- imagination
 and space (*see* space: and
 imagination)
 figment of, 575
- impact, 29, 48, 49–52, 53, 58–9, 60, 61,
 62, 64, 65, 66, 67–8, 69–71, 75, 79,
 82, 96, 98, 118, 140, 146, 162, 163,
 262, 333, 346, 347, 397, 402, 403,
 404, 405, 406, 407–8, 701,
 702
 see also collision
- impulse
 of light, 319

Index of subjects

- inclination
 angle of, 90, 514
 independence, 25, 195, 197, 199, 281, 282, 690
see also dependence
 indeterminacy
 of concepts, 65, 111–12
 of time, 38, 40, 111–12
 inertia
 concept of (*see* concept: of inertia)
 force of (*see* force: of inertia)
 infinite
 number, 46, 354, 363, 458
 quantity, 80, 135
 reason, 197
 space (*see* space: infinite)
 striving, 30
 time, 31, 81
 understanding, 282
see also infinity
 infinitesimals, 703
 method of, 105
 infinity
 motion to (*see* motion: to infinity)
 of attractive force, 186, 217
 of creation, 194, 229, 260–73
 of God (*see* God: infinity of)
 of space, 185, 260–73
 of time, 185, 260–73
see also infinite
 inhabitants of other planets, 183, 294–306
 intension, 122–4, 125, 126, 127–8, 132, 135, 137, 139, 141, 149, 703, 704
 intention, 186, 196, 215, 221, 228, 280, 284, 288, 289, 304, 305, 338, 363
 interaction
 least, 230
 of substances, 281
 intuition, xiv, xv
 judgment
 and taste, 579–80
 last, 564
 power of, 19, 299
 justice, 306, 363
 knowledge
 as a system, 446
 desire for (*see* desire: for knowledge)
 division of (*see* division: of knowledge)
 from experience (*see* experience: knowledge from)
 from reason, 445
 human (*see* human: knowledge)
 of the world, 437, 445, 446
see also cognition
 language, 401, 402, 632, 634, 647
 latitude, 162, 249, 379, 389, 394, 402, 459, 460, 499, 502, 510, 558, 568, 675
 law
 Descartes's, 1, 2, 35, 38, 41, 71, 74, 92
 Galileo's, 2
 Leibniz's, 37, 59, 104, 111, 128
 of conservation (*see* conservation: law of)
 of continuity (*see* continuity: law of)
 of mechanics, 326
 of the density of planets, 233
 of eccentricity of orbits (*see* eccentricity of orbits: law of)
 of equality of cause and effect (*see* equality: of cause and effect)
 of gravity (*see* gravity: law of)
see also laws *and* necessity
 laws
 character of (*see* character: of laws)
 Newton's, 217, 253
 of attraction (*see* attraction: laws of)
 of equilibrium (*see* equilibrium: laws of)
 of inelastic collision, 66, 68
 of mathematics, 94, 121
 of mechanics, 38, 93, 122, 397
 of metaphysics, 94
 of motion, 199
 of nature, 183, 195, 196, 236, 258, 281, 282, 283, 284, 285, 291, 292, 314, 319, 340
 of order, 28
 of rational thought, xvi
see also law *and* necessity
 leap, 92, 591, 654, 696

Index of subjects

- lever
 action of (*see* action: of a lever)
 nature of, 42
- lice, 296, 655
- life
 after death (*see* death: life after)
 and the Sun, 215, 277
 of a human being, 168, 298
 of nature, 180
- light, 185, 203, 216, 220, 221, 223, 243,
 259–60, 261, 262, 275, 277, 303,
 309, 318–19, 325, 326, 362, 428,
 429, 477, 479, 498, 499, 692,
 713
- living force
 and elasticity (*see* elasticity: and
 living force)
 and fluidity (*see* fluidity: and living
 force)
 and gravity (*see* gravity: and living
 force)
 and mass, 140–4
 and mathematics, 3, 40–2
 and resistance, 137–9
 and soft bodies, 140
 character of (*see* character: of living
 force)
 contingency of, 131
 origin of, 126
 see also force
- location
 and action (*see* action: and location)
 concept of, 25
 of the soul, 24, 25
 see also position
- logic
 Kant's lectures on, 393, 408
 of probability, 34
- longitude, 389, 459, 460, 568, 725
- machine
 bodily, 299
 God in the, 281
 of nature, 53
- magnetism, 328, 359, 372, 499,
 540
- magnitude
 finite, 154
 of force (*see* force: magnitude of)
 of intension, 132
- map, 362, 377, 384, 423, 476, 504, 505,
 508, 509, 568
- mass
 and living force (*see* living force:
 and mass)
 determinate, 142
 infinitely small, 31, 141, 142
 of a comet (*see* comets: mass of)
 of a planet and relationship to its
 density, 232–8
 quantity of, 118, 140, 142
 soft, 151, 153, 154, 530
- mathematics
 and Descartes's law, 41–2
 and elasticity (*see* elasticity: and
 mathematics)
 and free motion, 129
 and living force (*see* living force:
 and mathematics)
 concepts of (*see* concept:
 mathematical)
 jurisdiction of, 86, 125
 laws of (*see* laws: of mathematics)
 of force (*see* force: mathematics of)
 role in science, xvi
 see also arithmetic *and* geometry
- matter
 as cause of representation, 24,
 25
 concept of (*see* concept: of matter)
 constitution of (*see* constitution: of
 matter)
 creation of (*see* creation: of matter)
 dispersion of, 184, 197, 204
 division of (*see* division: of matter)
 elastic, 309, 313, 314, 317, 318,
 319, 322
 elementary, 234, 241, 243, 261,
 265, 268, 290
 essence of (*see* essence: of matter)
 gravitational, 113
 liquid, 161, 163, 478
 of fire (*see* fire: matter of)
 of heat (*see* heat: matter of)
 properties of, 195, 199, 283
 quantity of, 236, 425
 subtle, 174, 521
 vegetable, 178
- mechanical philosophy, 309, 705,
 715
- mechanics
 principles of, 50, 80, 396
 laws of (*see* laws: of mechanics)
 Wolff's, 48, 49, 81

Index of subjects

- medicine, 602, 604, 613, 615, 616, 635, 639
 medium
 and light, 477
 resistance of, 134, 144
 meridian, 458, 459, 460
Metaphysical Foundations of Natural Science, xiii, xv, xvi, xvii, 397
 metaphysics
 as science, xiv
 concepts from (*see* concept: metaphysical)
 dependence of natural science on, xvi, 94
 Kant's lectures on, 374, 385, 393
 laws of (*see* laws: of metaphysics)
 of morals, xiv
 of nature, xiv, xv
 subject of, 57
 meteor, 412, 413, 433, 530, 548
 meteorology, 433
 see also weather
 method
 inferential, 142
 mathematical, 227
 of infinitesimals (*see* infinitesimals: method of)
 of the *True Estimation of Living Forces*, 83–4
 mind
 highest, 199
 human, 15
 mind–body relation, 24–5
 minerals
 origin of, 627–8
 miracle, 49, 186, 258, 264, 281, 368, 413, 632, 647
 moment
 infinitely small, 143, 405, 406
 of action (*see* action: moment of)
 of boiling (*see* boiling: moment of)
 of collision (*see* collision: moment of)
 of force (*see* force: moment of)
 of gravity (*see* gravity: moment of)
 of pressure, 35, 51, 97, 112, 113
 of velocity, 97
 momentum, 1, 5, 16, 78, 97, 138, 139, 318, 380, 494, 555, 565, 687, 694, 697, 700, 701
 monad, 29
 morality
 and geography, 437, 449, 452
 decline of, 168
 see also vice and virtue
 motion
 absolute, 80, 110, 136, 396, 397
 accelerated, 150, 213, 255, 694
 actuality of (*see* actuality: of motion)
 analysis of, 76, 396
 apparent, 219, 457, 707
 cause of, 22, 122, 287
 circular, 6, 76–81, 186, 201, 214, 231, 239, 241, 243, 244, 260
 community of (*see* community: of motion)
 compound, 6, 71–6
 concept of (*see* concept: of motion)
 duration of (*see* duration: of motion)
 free, 6, 31, 32, 35, 127, 128, 129, 131, 133, 134–5, 136, 139, 145, 160, 206, 256
 impressed, 226, 262
 laws of (*see* laws: of motion)
 of earthquakes (*see* earthquakes: motion of)
 of waves, 318, 333, 334, 487–91
 orbital, 214, 217, 223, 229, 230, 232, 235, 239, 245, 249, 256, 271, 283
 origin of, 284
 perpetual, 90, 91, 93, 94, 163, 177
 propagation of, 326
 quantity of, 1, 2, 53
 real, 86, 88, 110, 111
 simple, 81, 283
 to infinity, 5, 29, 78, 124, 128, 134–5
 uniform, 39, 101
 see also acceleration, momentum, rest, speed, *and* velocity
 music, 579, 593, 604
 nadir, 458, 462
 natural philosophy, 1, 2, 3, 4, 183
 naturalism, 208
 naturalist, 169, 173, 177, 195, 196, 706
 nature
 ageing of, 168, 169, 174, 180
 as simple, 57, 204, 208
 capacity of (*see* capacity: of nature)

Index of subjects

- defects of, 285
 definition of, xv–xvi
 dependence on God, 282
 determinations of (*see*
 determinations: of nature)
 doctrine of, xvi, xvii, xviii, 24, 57,
 64, 65, 141, 253, 273
 essence of (*see* essence: of nature)
 first state of, 194, 198, 225–32
 human (*see* human: nature)
 laws of (*see* laws: of nature)
 life of (*see* life: of nature)
 machine of (*see* machine: of nature)
 metaphysics of (*see* metaphysics: of
 nature)
 of air (*see* air: nature of)
 of matter, 1
 of solidity, 313–15
 of the lever (*see* lever: nature of)
 of vapors, 321
 order of, 183, 197, 204, 265
 phoenix of (*see* phoenix of nature)
 purpose of, 195, 240, 295
 systematic constitution of, 214, 248
see also universe
- necessity
 geometric, 49, 131
 independent, 282
 irrational, 292
 of the laws of nature, 183
 of three-dimensionality, 27, 28
- new elucidation, 309, 692
- number
 infinite (*see* infinite: number)
 powers of, 27
 properties of, 27
- omnipotence, 269, 270, 273
Only Possible Argument, 186
 ontology, xvi
 optical illusion, 241, 428, 499
 optimism, 327
Opus postumum, xiii
- orbit
 direction of (*see* direction: of orbit)
 duration of (*see* duration: of orbit)
 eccentricity of (*see* eccentricity of
 orbits)
 of comets (*see* comets: orbits of)
- order
 and connection (*see* connection:
 and order)
- and God, 194, 208, 292
 lack of, 26
 laws of (*see* laws: of order)
 of nature (*see* nature: order of)
see also law
- organisms, 170, 683, 738
see also animals, creatures, and
 plants
- origin
 common, 197, 259, 281, 305
 of caverns (*see* caverns: origin of)
 of comets (*see* comets: origin of)
 of creatures (*see* creatures: origin
 of)
 of different national characters, 510
 of islands, 503
 of living force (*see* living force:
 origin of)
 of minerals (*see* minerals: origin of)
 of moons, 243–8
 of mountains, 425, 515
 of rivers, 543
 of rotation around an axis, 243–8
 of Saturn's rings, 248–59
 of springs and wells, 540–2
 of the solar system, 243
 of the universe, 227, 237, 285,
 287
see also cause, creation, and ground
- paganism, 633, 652
- part, 26, 31, 57, 65, 66–7, 74, 75, 94,
 120, 144, 151, 222, 226, 248, 261,
 262, 267, 281, 317, 363, 455
see also whole
- particles
 elementary, 198, 229, 232, 239,
 244, 246, 313, 317
- pendulum, 45, 454, 701, 717
- perception, 258, 445, 497
- perfection
 of rational beings, 279
 of the universe, 194, 199
- perihelion, 223, 466
- permanence
 of a world, 264
 of motion, 124, 125, 129,
 133
- petrification, 341, 482, 527, 561, 623,
 626, 627, 669
- philosophy
 as science, xvii

Index of subjects

- philosophy (*cont.*)
 mechanical (*see* mechanical philosophy)
 natural (*see* natural philosophy)
 Newtonian, 200, 204
 task of, 450
 transcendental, xiv
- phoenix of nature, 186, 272
- phoronomy, 55
- physical influence, 24, 690
- Physical Monadology*, xiii, 309
- physics
 definition of, xiv, xvi
- plan
 of revelation (*see* revelation: plan of)
 of the universe, 57, 58, 199, 205, 220
- plane
 inclined, 46, 47, 77, 79, 89, 90, 91, 92
 of eclipse (*see* eclipse: plane of)
 perpendicular, 75
- planets
 connection of (*see* connection: of planets)
 density of (*see* density: of planets)
 evaporation of (*see* evaporation: of planets)
 mass of (*see* mass: of a planet and relationship to its density)
- plants
 creation of, 178, 201
 destruction of, 269
 growth of, 174, 196, 361, 543
 marine, 392, 562
see also vegetables
- plenum, 134, 694, 695
- point
 of contact (*see* contact: point of)
 of view, 200, 216, 298, 359, 400, 446, 670
- politics
 and geography, 388, 437, 449, 452
- position, 24, 55, 82, 196, 201, 216, 219, 226, 246, 247, 248, 255, 303, 315, 317, 353, 371, 379, 400, 429, 454, 461, 488, 556
see also location
- power
 of judgment (*see* judgment: power of)
 of nature, 194, 208
 of number (*see* number: powers of)
 of thought, 299
see also action, capacity, and force
- prediction
 of earthquakes (*see* earthquakes: prediction of)
 of eclipses (*see* eclipse: prediction of)
 of the duration of Saturn's rotation on its axis, 251, 254
 of weather, 430
- pre-established harmony (*see* harmony: pre-established)
- presence
 Divine (*see* Divine: presence)
 of corporeal substances, 412
- pressure
 air (*see* air: pressure of)
 atmospheric (*see* atmosphere: pressure of)
 dead (*see* dead: pressure)
 gravitational, 78, 81, 92, 93, 113, 134, 139, 141, 152, 154
 moment of (*see* moment: of pressure)
- principle
 active, 174, 180, 325, 360
 Descartes's, 42, 55
 elastic, 319, 323
 inner, xv, xvi
 of causality, xv, xvi
 of civil society, 452
 of fire, 319
 of unity, 3
see also law
- principles
 a priori (*see* a priori: principles)
 mathematical, xvi
 metaphysical, xvi
 Newtonian, 156, 212
 of mechanics (*see* mechanics: principles of)
 theological, 452
- probability
 degrees of, 268
 logic of (*see* logic: of probability)

Index of subjects

- of there being many worlds, 268
 well founded, 306
- propagation
 of light, 319
 of motion (*see* motion: propagation
 of)
 of pressure of the aether, 319
- properties
 Divine (*see* Divine: properties)
 essential, 195, 228, 250,
 282
 geometric, 131
 of a thing, 27
 of air (*see* air: properties of)
 of comets, 240
 of extension, 27
 of forces, 132
 of natural bodies, 121
 of number (*see* number: properties
 of)
 of thinking beings, 301
 of winds, 391
see also determinations
- propulsion, 75, 124, 135, 694
- Providence, 195, 209, 270, 282, 304,
 330, 332, 360, 361, 363, 364, 636,
 677
- psychology, xiv, xv, xvi, 298, 683
- purpose
 God's, 199, 233, 363
 lower and higher, 338, 363
 of human beings, 298
 of living things, 298
 of nature (*see* nature: purpose of)
 of the laws of nature, 199
see also intention *and* plan
- quality, xiv, 269, 275, 536, 688
- quantity
 determinate, 36, 39, 133
 finite, 78, 111, 135, 138, 141
 indeterminate, 36
 of action (*see* action: quantity of)
 of cause, 69
 of effort, 30
 of mass (*see* mass: quantity of)
 of matter (*see* matter: quantity of)
 of resistance, 151
see also magnitude
- quantum
 of gravity (*see* gravity:
 quantum of)
- race
 and animals, 577
 human (*see* human: race)
 white, 574, 576
- reality, 84, 87, 111, 151, 688
see also actuality
- reason
 Divine (*see* Divine: reason)
 human (*see* human: reason)
 infinite (*see* infinite: reason)
 knowledge from (*see* knowledge:
 from reason)
 lack of, 198, 280, 303
 pure, 445
 sufficient, 40, 84, 86, 93, 213
 tribunal of, 371
- reciprocal
 action (*see* action: reciprocal)
 attraction, 264
 dependence (*see* dependence:
 reciprocal)
 harmony (*see* harmony: reciprocal)
 relationship, 262, 281
- regularity
 in chaos (*see* chaos: regularity in)
 lack of, 195, 335, 358
see also law *and* order
- religion, 194, 195, 196, 200, 258, 281,
 388, 452, 632, 637, 641, 642, 644,
 645, 647–8, 650, 652, 653, 658,
 659, 661, 665, 677
- representation
 mathematical, 86
 matter as cause of (*see* matter: as
 cause of representation)
 of perfection, 251, 260
see also concept *and* ideas
- repulsion, 65, 98, 180, 197, 204, 229,
 261, 279
- resistance
 gravitational, 78, 79, 81, 93, 112,
 115
 infinitely little, 23, 100, 284
 lack of, 54, 129, 153
 of a medium (*see* medium:
 resistance of)
 of air (*see* air: resistance of)
 quantity of (*see* quantity: of
 resistance)
- rest
 absolute, 110, 396, 402, 403
 and action (*see* action: and rest)

Index of subjects

- rest (*cont.*)
 and force, 22, 35, 54, 105, 106, 122
 first state of, 233
 relationality of, 254, 312, 379, 396,
 400, 401
see also motion
- revelation
 Divine, 168, 222, 258, 263, 269,
 272, 273, 285
 plan of, 222
- revolution
 around the Sun, 464
 daily, 207
 of the Moon, 493, 497
see also orbit
- rigidity, 299
- rings of Saturn
 origin of (*see* origin: of Saturn's
 rings)
- rivers
 and the ageing of the Earth, 165,
 173
 and the level of the oceans, 174,
 176
 origin of (*see* origin: of rivers)
- salinity of sea water
 cause of, 173, 174, 564
 differences in, 480, 481
- science
 concept of (*see* concept: of science)
 dependence on metaphysics (*see*
 metaphysics: dependence of
 natural science on)
 empirical, xiv
 natural, xiii, xv, xvi, xviii, 180, 251,
 300, 362, 368, 373, 381, 385,
 393, 408
 Newtonian, 204, 212–14
 philosophy as (*see* philosophy: as
 science)
 role of ideas in, xiv
 role of mathematics in (*see*
 mathematics: role in science)
 unity of, xiv
- sensation, 279, 299, 412, 562, 617
- sense
 common (*see* common sense)
 inner and outer, 445
 of smell (*see* smell)
- senses
 of animals (*see* animals: senses of)
- shape
 change of, 65, 143
 irregular, 203
 of Saturn, 253
 of the Earth, 453, 454, 506
 of water, 473
- simple
 laws of nature, 196
 motion (*see* motion: simple)
 nature as (*see* nature: as simple)
 velocity, 32, 39, 40, 41, 48, 52, 69,
 75, 84, 125, 128, 129, 133,
 138, 139, 143
- sin, 306, 327, 639
- skin, 572, 574, 575, 581, 584, 585, 586,
 590
 color of (*see* color: of humans)
- slavery, 504, 577
- smell, 530, 532, 547, 579–80
- solidity
 explanation of, 309
 nature of (*see* nature: of solidity)
 of the Earth, 156, 161, 163,
 170
- soul
 action of (*see* action: of the
 soul)
 influence of matter on, 24, 299
 location of (*see* location: of the
 soul)
see also spirit
- space
 absolute, 202, 396
 and force, 26–7, 262, 412, 692
 and imagination, 27
 constitution of, 227
 dimensions of, 5, 27–8, 691
 empty, 31, 124, 184, 200, 220, 226,
 227, 238, 261, 266, 272, 283,
 286, 288, 478
 equality of, 100, 116
 infinite, 185, 215, 260–73, 280
 mathematical, 401
 occupation of, 228, 237, 313, 377,
 401, 412, 424, 683
 relationality of, 26, 401
 science of, 28, 448–9, 450
 uniformity of, 100
 whole of, 226, 227, 265, 267, 288,
 424, 498
see also extension, geometry, and
 location

Index of subjects

- speed
 of winds, 553
see also motion *and* velocity
- spirit
 domination of, 306
 human (*see* human: spirit)
 powers of, 299
see also soul *and* world-spirit
- steelyard, 42, 89, 90, 92, 106,
 700
- striving
 infinite (*see* infinite: striving)
see also conatus *and*
 endeavor
- sublime, 220, 267, 297, 301, 302, 305,
 707
- substance
 and connection (*see* connection: of
 substances)
 and interaction (*see* interaction: of
 substances)
 presence of corporeal (*see* presence:
 of corporeal substances)
see also entity
- superstition, 431, 467, 491, 576, 631,
 661
- system
 knowledge as a (*see* knowledge: as a
 system)
 of classification, xvii
 of stars, 221, 262, 278
 of the world, 197, 292
 planetary, 226–32, 246, 257, 260,
 261, 274, 277, 286, 289, 306,
 307
 science as a, xiv
see also connection
- taste
 differences of (*see* humans: different
 tastes of)
- telescope, 185, 220, 247, 251, 252, 256,
 302, 420, 576
- temperature
 and color, 575
 basement, 489, 513, 529
 of atmosphere (*see* atmosphere:
 temperature of)
- testimony, 447, 450
- theology
 and geography, 437, 449,
 452
- thinking
 art of (*see* art: of thinking)
 faculty of (*see* faculty of thinking)
see also reason *and* human
 understanding
- three-dimensionality, 5, 26–8, 39, 692
- tides
 and whirlpools, 494, 497
 cause of, 157, 368
 direction of (*see* direction: of tides)
- time
 equality of (*see* equality: of time)
 finite, 78, 79, 81, 111, 112, 126, 128
 indeterminacy of (*see*
 indeterminacy: of time)
 whole of, 450
see also duration
- topography, 447
- trade
 and geography, 452
- transmutation, 174, 740
- tsunami, 337
see also waves
- uniformity
 of direction, 241, 287
 of motion (*see* motion: uniform)
 of space (*see* space: uniformity of)
- universe
 ageing of the (*see* ageing: of the
 universe)
 beauty of the (*see* beauty: of the
 universe)
 center of the (*see* center: of the
 universe)
 constitution of the (*see* constitution:
 of the universe)
 creation of the (*see* creation: of the
 universe)
 intital state of the (*see* chaos: as
 initial state of the universe)
 origin of the (*see* origin: of the
 universe)
 perfection of the (*see* perfection: of
 the universe)
 plan of the (*see* plan: of the
 universe)
see also nature *and* world
- vapor
 and flame, 333
 of comets, 242

Index of subjects

- vapors
 elasticity of, 229, 422
 nature of (*see* nature: of vapors)
 of comets, 242
see also evaporation
- vaults, 171, 335, 340, 344, 353, 355,
 356, 368, 372, 528, 566, 667
see also caverns
- vector
 radius, 212
- vegetables, xvii, 178, 180,
 658
- velocity
 finite, 111, 124, 154
 infinitely slow, 122, 131, 133, 134,
 139
 moment of (*see* moment: of
 velocity)
 simple (*see* simple: velocity)
see also motion *and* speed
- vibration, 326, 498, 521
- vice and virtue, 279, 299, 306, 650, 653
see also morality
- vis viva*, 3, 5, 7, 130, 698, 707
see also living force
- viscosity, 180
- volcanoes
 and atmosphere (*see* atmosphere:
 and volcanoes)
- volume, 237, 289, 317, 318, 320, 321,
 323, 465, 486, 521, 683, 686
- vortices, 57, 670
- war, 364, 409, 485, 504, 535, 636, 640,
 671, 677, 685
- water
 action of (*see* action: of water)
 and atmosphere (*see* atmosphere:
 and water)
 density of (*see* density: of water)
 evaporation of (*see* evaporation: of
 water)
 shape of (*see* shape: of water)
- waves
 motion of (*see* motion: of waves)
 tidal, 349
- weather
 decline in, 168
 in different regions, 558–9
- influence of the Moon on, 426–33
 lack of regularity in, 335, 358, 531
 prediction of (*see* prediction: of
 weather)
- weight
 of atmosphere (*see* atmosphere:
 weight of)
 specific, 162, 228, 233
see also gravity
- whole
 idea of the, 448
 nature as a, xv, 337, 425
 of space (*see* space: whole of)
 of time (*see* time: whole of)
 prior to its parts, 446
 well-ordered, 197
 world as a, 452
- will
 Divine (*see* Divine: will)
see also choice
- winds
 and atmosphere (*see* atmosphere:
 and wind)
 cold (*see* cold: winds)
 direction of (*see* direction: of winds)
 speed of (*see* speed: of winds)
- wisdom
 Divine (*see* Divine: wisdom)
- work, 222, 251, 266, 267, 273, 361, 576,
 594, 633, 659, 669, 687
- world
 and connection (*see* connection:
 and worlds)
 duration of the (*see* duration: of a
 world)
 knowledge of the (*see* knowledge:
 of the world)
 more than one actual (*see* existence:
 of many worlds)
 perfect, 200
 permanence of a (*see* permanence:
 of a world)
 system of (*see* system: of the world)
see also nature *and* universe
- world-spirit, 165, 180, 636
- zenith, 358, 458, 462, 463, 506
 zodiac, 185, 218, 220, 241, 259–60, 261,
 277, 502, 535