

Index

- Accademia del Cimento, 113
 Agricola, Georgius, 10
 agriculture, 137–40
 Agrippa, Heinrich Cornelius, 13,
 19, 133
 alchemy, 17–19, 101, 124–6, 130,
 133, 134, 135, 140–1
 Islamic, 17–18
 medieval, 17
 Alcmaeon of Croton, 55
 Aldrovandi, Ulisse, 35, 52
 Alexander of Tralles, 59
 Alpini, Prospero, 48–9
 anatomical illustration, 60, 63, 72
 anatomy, 54–73
 Andreae, Johann Valentin, 116,
 120–1
 Angelo, Jacopo, 4
 Apollonius of Perga, 76
 Archimedes, 8, 9, 14, 95
 Aristarchus of Samos, 76
 Aristotelianism, 21, 23, 41, 66, 72,
 127, 131, 132, 133, 137
 Aristotle, 3, 5, 6, 13, 21–2, 35, 37,
 39, 51, 54, 55, 66, 68, 72,
 74, 76, 77, 101, 102, 103,
 107, 113, 115, 119, 124,
 131, 133, 135
 Arnald of Villanova, 18, 45
 Ashmole, Elias, 71, 140
 astrology, 12, 92, 101, 121, 133,
 134
 astronomy, 74–100; *see also* Brahe,
 Tycho; Copernicus, Nicolaus;
 Galilei, Galileo; Kepler,
 Johannes; Ptolemy, Claudius
 Aurelianus, Caelius, 59
 Bacon, Francis, 1, 10, 102–5, 109,
 110, 115, 116–19, 130, 134,
 135, 136, 137, 138
 Bacon, Roger, 5, 8, 18
 Barbaro, Ermolao, 35, 52
 Bauhin, Gaspard, 50, 51, 52
 Bauhin, Jean, 50
 Belon, Pierre, 37, 53
 Berengario da Carpi, Jacopo, 60
 Biringuccio, Vanoccio, 10
 blood flow and circulation, 60–73
 Bock, Jerome, 44, 50, 52, 59
 Bondt, Jacob, 38, 48, 53
 Bonus of Ferrara, Petrus, 17
 Borelli, Giovanni Alfonso, 1
 Bostocke, R., 29
 botanical gardens, 43

156 INDEX

- botanical illustration, 41–5, 48, 50, 52, 59–60
 botany, 39–53
 Boyle, Robert, 1, 29, 105, 113, 130, 140
 Bracciolini, Poggio, 4
 Brahe, Tycho, 9, 89–94, 95, 100
 Brunfels, Otto, 44, 52, 59
 Bruno, Giordano, 87
 Brunschwig, Hieronymus, 45
- cabala, 133, 135, 136
 Caius, John, 38
 Calcar, Jan Stephen van, 60
 Callippus, 74
 Campanella, Tommaso, 116, 118–19, 134
 Cardano, Girolamo, 9
 Celsus, Aulus Cornelius, 5
 Cesalpino, Andrea, 51
 Charleton, Walter, 130
 Chaucer, Geoffrey, 17
 chemistry, 16–33, 117, 120–1, 122–3, 124–5, 126–30, 135, 136, 137–41
 Christianity, *see* religion
 Christina, Queen of Sweden, 106
 Chrysolorus, Manuel, 5
 Colonna, Fabio, 51
 Columbo, Realdo, 54, 63, 65
 Copernican system, 79–100, 105, 106, 113, 133, 136
 Copernicus, Nicolaus, 6, 74, 79–86, 100, 101, 114, 125, 132, 133
 cosmology
 Aristotelian, 74, 76, 78
 Hermetic, 12, 70
 Paracelsian, 21–9
 Costa, Christavão da, 48
 Creation, chemical interpretation
 of, 23, 25, 122, 125, 128, 133
 Cusanus, Nicolaus, 78, 87
 da Novara, Domenico Maria, 81
 Dee, John, 2, 7, 8, 13, 19, 94, 103, 133
 Democritus, 136
 Descartes, René, 1, 70, 105–9, 112, 113, 115, 116, 130, 133, 134
 Digges, Thomas, 87–9
 Dioscordies, Pedanius, 41, 43, 44, 45, 49, 50, 52
 Dodoens, Rembert, 50
 Donne, John, 31
 Dorn, Gerhard, 23
 d'Orta, Garcia, 47, 48
 Duchesne, Joseph, 27
- educational reform, 3–4, 21, 33, 116, 121, 127, 130, 132, 134–40
 elements, 17, 23–5, 32, 33
 Epicurus, 136
 Erasistratus, 55
 Erasmus, Desiderius, 3
 Erastus, Thomas, 31
 Euclid, 7, 133
 Eudoxus of Cnidus, 74
 experiment and observation, 2, 7–8, 14, 17–18, 21, 23, 33, 35, 37, 67, 69, 72, 84, 89, 91, 94, 96, 102, 103–5, 111–14, 115, 123, 124, 128, 135, 137–8; *see also* anatomical illustration; botanical illustration; exploration
 exploration, 37, 38, 47–9, 52

- Fabricius of Aquapendente,
 Hieronymus, 54, 63, 65, 66
- Fallopio, Gabriele, 54, 63
- Ficino, Marsilio, 6, 12, 18, 78,
 118, 133, 135, 140
- Fludd, Robert, 2, 7, 11–12, 34, 54,
 65, 70, 71, 72, 116, 121–6,
 128, 130, 131, 134, 135, 136
- Fracastoro, Girolamo, 79, 81
- Frampton, John, 48
- Fuchs, Leonhard, 44, 50, 52, 59, 64
- Galen, 4, 5, 6, 7, 13, 54, 55–7, 59,
 60, 64, 66, 101, 102, 119,
 133, 135; *see also* Galenism
- Galenism, 6, 17, 18, 21, 31, 32,
 65, 72, 132, 133, 136, 138,
 140; *see also* Galen
- Galilei, Galileo, 1, 7, 8–9, 10, 70,
 95–100, 102, 106, 109–12,
 113, 114–15, 116, 133, 134
- Gassendi, Pierre, 70, 114, 115,
 123, 125–6, 130, 134
- Geber, 18
 geology, 25
- Gerard, John, 50
- Gerard of Cremona, 79
- Gesner, Conrad, 35, 45, 47, 52, 53
- Gilbert, William, 27, 89, 94, 102,
 105, 125, 135, 136
- Glauber, Johann Rudolph, 10, 71,
 138–40
- Gohory, Jacques, 48
- Guarino da Verona, 5
- Guericke, Otto von, 113
- Gunter of Andernach, Johannes,
 59, 64, 72, 101, 132, 140
- Hall, Thomas, 137
- Hariot, Thomas, 49
- Harvey, William, 7, 54, 63–4,
 65–73, 101, 102, 107, 122,
 126, 132
- Helmont, Jean Baptiste van, 116,
 126–30, 131, 134, 135, 138,
 140
- Heraclides of Pontus, 76–8
- herbals, 18, 41–53
- Hermeticism, 6, 11–14, 72, 78–9,
 82, 87, 101, 103, 116, 118,
 123–4, 128, 133, 134
- Herophilus, 55
- Hipparchus of Rhodes, 76
- Hooke, Robert, 113
- humanism, 2–8, 34, 41, 43, 44,
 52, 59–60, 63, 101, 132–4
- Ibn an Nafis, 65
- Jābir ibn Hayyān, *see* Geber
- John of Holywood (Sacrobosco), 78
- John of Rupescissa, 18, 45
- Jorden, Edward, 25, 29
- Jung, Joachim, 52
- Kepler, Johannes, 2, 11, 92–5, 96,
 100, 114, 116, 123–4, 130
- Le Baillif, Roch, 66
- L'Ecluse, Charles, 48
- Leeuwenhoek, Antoni, 71
- Leibniz, Gottfried, Wilhelm, 9
- Leonardo da Vinci, 60
- Libavius, Andreas, 32, 121
- Linacre, Thomas, 5, 59, 72, 132
- Linnaeus, Carolus, 52
- Lobelius, Mathias, 50, 51
- logarithms, 9
- Lucretius, 4
- Luther, Martin, 98, 133

158 INDEX

- Macrobius, Ambrosius Theodosius, 78
- macrocosm–microcosm, 2, 12, 27, 32, 33, 66, 69, 70, 122, 125, 128
- Maestlin, Michael, 92
- magic, 2, 12–14, 19, 101, 117, 118, 127, 131, 133, 134, 136, 137, 141
- magnet, 27, 89, 102, 105
- Malpighi, Marcello, 71
- Martianus Capella, 78
- mathematics, 8–9, 11, 33, 92, 94–5, 99–100, 104, 105–6, 109–11, 121, 123–4, 127–8; *see also* Pythagoreanism
- Mattioli, Pierre, 45, 47, 50
- Mayerne, Theodore Turquet de, 31
- mechanical philosophy, 70, 107–9, 113, 115, 134, 135, 140
- Medicean stars, 96
- medicine
 botany and, 39–53
 Galenic, 27, 29–31, 32, 55–7
 medieval, 54–9
 Paracelsian, 26–33, 116, 119, 126–30, 135, 137–8
 use of vernacular in, 6–7
- Melanchthon, Philip, 98, 133
- Mersenne, Marin, 70, 106, 114, 123, 124–6, 130
- Moffett, Thomas, 7
- Monardes, Nicolás Bautista, 47–8
- Mondino de'Luzzi, 57
- motion, physics of, 98–9, 109–15
- Müller, Johannes, *see* Regiomontanus
- music, 95
- mysticism, 11–14, 65, 66, 67, 72, 100, 121, 122, 123, 133–4, 135–6, 141; *see also* alchemy; astrology; Hermeticism; Pythagoreanism
- Napier, John, 9
- natural history, 35–8
- Naturphilosophie, 141
- Newton, Isaac, 1, 2, 9, 74, 99, 130, 140–1
- observation, *see* experiment and observation
- Oribasius, 59
- Osiander, Andreas, 82
- Palissy, Bernard, 138
- Paracelsians, 6, 7, 20–33, 48, 53, 59, 66, 71, 104, 106, 116, 124, 128, 130, 131, 133, 135, 138, 140; *see also* Fludd, Robert; Helmont, Jean Baptiste van
- Paracelsus, Phillipus Aureolus Theophrastus von Hohenheim, 2, 7, 10, 12, 13, 14–15, 19–21, 23, 55, 101, 103, 105, 119, 127, 134, 140
- Parkinson, John, 50
- Patin, Gui, 71
- Paul of Aegina, 59
- Penny, Thomas, 38
- Peregrinus, Peter (of Maricourt), 8
- Petrarch, 2, 5
- Peuerbach, Georg von, 5, 99, 101, 132, 140
- Philolaus of Crotona, 76, 136
- Piso, Willem, 38
- Plat, Hugh, 138
- Plato, 6, 8, 11, 133
- Platonism and neo-Platonism, 9, 11, 17, 26–7, 87, 133
- Plethon, Gemistos, 5

- Pliny the Elder (Gaius Plinius Secundus), 8, 35, 38, 52, 104
 Plotinus, 6
 Porta, John Baptista, 13, 19, 133
 Primerose, James, 71
 Ptolemy, Claudius, 5, 6, 76, 78, 79, 83–4, 98, 99, 100, 101, 102, 132, 133–4
 Puritanism, 135
 Pythagoreanism, 9, 11, 17, 33, 76, 82, 92, 94–5, 121–3, 133
- Ramus, Peter, 3–4, 102
 Rawley, William, 116–17
 Ray, John, 52
 Regiomontanus (Müller, Johannes), 5, 79, 81, 101, 132
 Reinhold, Erasmus, 98
 religion, 13, 21–3, 118–20, 124–5, 127–30, 133, 135
 Rhazes (al-Rāzī), 18
 Rheticus, Georg Joachim, 82
 Riolan, Jean, 71
 Rochas, Henri de, 25
 Roman Catholic Church, 98–9, 124–5, 127, 133, 134
 Rondelet, Guillaume, 37, 53
 Rosicrucians, 106, 116, 119–22, 128, 134, 135
 Royal Society of London, 71, 112, 117, 120, 137, 138
 Rudolf II, Holy Roman Emperor, 94
- Sacrobosco, Johannes, *see* John of Holywood
 Sarpi, Paolo, 71
 Sennert, Daniel, 32
 Servetus, Michael, 54, 64–5, 72
 Severinus, Peter, 21
 signatures, doctrine of, 29, 53
- Tartaglia, Niccolò, 9
 technology, 9–10, 137, 138–40
 telescope, 96
 Telesio, Bernardino, 8, 102, 118
 Theophrastus, 39, 41
 Thurneisser, Leonard, 29
 Topsell, Edward, 35–7, 53
 Torricelli, Evangelista, 113
 Trithemius, Johannes, 19
 Turner, William, 50
 Tymme, Thomas, 14, 23
- Ulstad, Philip, 45
 universities, 3–4, 33, 132
 Bologna, 57, 81
 Cambridge, 4, 13
 Oxford, 4, 9
 Padua, 4, 43, 60, 63, 65, 66, 72, 81, 95, 132, 133
 Paris, 4, 9, 59, 60, 121
 see also educational reform
 utopias, scientific, 116–21
- vacuum, 113–14
 Vesalius, Andreas, 5, 54, 59–64, 101, 132
 Viète, François, 9
 Vittorino da Feltre, 3
 Vives, Juan Luis, 3
- Walaeus, Johannes, 70–1
 Ward, Seth, 136–7
 Webster, John, 71, 135–7
 Wilkins, John, 136–7
 Willis, Thomas, 130
 Witelo (Theodoric of Freiburg), 8
 Wotton, Edward, 38
- Zaluziansky von Zaluzian, Adam, 51
 zoology, *see* natural history