

Index

- Academy of Physics, 144, 152, 233
- Addison, Joseph, 62
- aesthetic attitudes to Earth, 15; the sublime, 45
- Agricola, 55
- Aikin, Arthur, 139, 146, 173, 213, 235; from mineralogy to geology, 142, 181; and maps, 180
- Aikin, John, 139
- Akenside, Mark, 105
- alchemy, 14; and minerals, 55
- Allan, Thomas, 233, 234
- Allen, William, 139, 180, 232
- Analytical review*, 159
- Ancients: wisdom of, 65, 68, 79, 83; and Moderns, 68, 89; denial of wisdom of, 107, 230
- Annals of philosophy*, 143, 152, 178, 236
- antiquarianism, 52, 96
- Arbuthnot, John, 26, 150, 225, 228; and theories of the Earth, 71; opponent of Woodward, 86; *Examination*, 86
- Archer, Joseph, 20, 27
- Arden, James, 99
- Arderon, William, 122
- Aristotelianism, 11, 13, 33; and fossils, 49; and minerals, 55
- Ashmole, Elias, 21
- Ashmolean Museum, 19, 20, 92, 225
- Askesian Society, 140
- Aubrey, John, 36, 38, 59, 225, 227
- Babbage, Charles, 148
- Babington, William, 139, 232
- Bacon, Francis, 16
- Baconianism, 16, 78, 138, 146, 148, 204f; and Scottish geology, 155
- Baker, D. E., 114, 231
- Baker, Henry, 231
- Bakewell, Robert, 99, 113, 136, 137, 171, 172, 217; and maps, 180; *Introduction*, 211-13
- Bald, Robert, 154
- Balfour, Andrew, 17, 21, 92, 150
- Banks, Sir Joseph, 131, 146
- Barba, Alonso, 57
- Barton, Richard, 106
- Beale, 227
- Beaumont, John, 19, 20, 24, 48, 79, 225, 228; his collection, 21; *Considerations*, 83
- Beche, H. T. De la, on fossils, 169, 183
- Beddoes, Thomas, 141, 144, 175
- Bellers, Fettiplace, 36
- Bentley, Richard, 44
- Berger, J. F., 173, 180, 234
- Bergman, Torbern, 171, 172
- Bevan, Benjamin, 136
- Bible: *see* Scripture
- Black, Joseph, 145, 151, 153, 154
- Blumenbach, J. F., 170
- Board of Agriculture, 96, 113
- Boate, Gerald, *Ireland's natural history*, 12
- Boetius de Boodt, 55
- Borelli, J. A., 19

- Borlase, Rev. William, 113; on the Deluge, 113
- Boulanger, Nicholas, 105
- Boulton, Matthew, 97
- Bournon, Count de, 146, 223
- Bowles, William, 102, 162
- Boyle, Hon. Robert, 16, 55, 69; his *Queries*, 18; 'General heads for a natural history of a country', 38; *Origine and virtues of gems*, 55
- Brande, W. T., 145
- Brander, Gustavus, 231
- British Mineralogical Society, 138, 140, 141, 146, 232-3
- British Museum, 22, 98, 144
- Browne, Edward, 54, 224
- Browne, Sir Thomas, 11, 67, 224
- Brownrigg, William, 97
- Brydone, Patrick, 99, 101, 102, 162
- Buckland, William, 141, 148, 173, 182, 202, 226, 236; on fossils, 169
- Buffon, Georges le comte de, 109; on time, 110; *Natural history*, 99, 117, 159, 170, 231; *Epoques de la nature*, 159
- Bulkeley, Sir Richard, 36, 40, 224
- Burnet, Thomas, 23, 24, 26, 29, 30, 35, 92, 101, 105, 108, 225, 228, 230; *Sacred theory of the earth*, 63f, 83; and Scripture, 70; change and decay of the Earth, 71; *Short consideration*, 83; *Reflections*, 84; debate with Warren, 84-5
- Bushell, Thomas, 224
- Bute, Earl of, his collection, 144
- Camden, William, 12, 34; *Britannia*, 39
- canals, and geology, 138
- Carew, Richard, 12
- Cartesianism, 105, 109, 227
- Cat, Nicholas le, 101, 108, 117
- Catastrophists, 161; and denudation, 164
- Catcott, Alexander, 26, 176, 177, 226, 230, 231, 236; *Treatise on the Deluge*, 110; theory of the Earth, 116-18, 122; fieldwork, 119
- Cavendish, Henry, fieldwork of, 119, 120, 176, 177, 231
- Chambers, Ephraim, 100
- Charlett, Arthur, 20
- chemistry, 14
- Childrey, Joshua, 12, 34, 223, 224, 225; *Britannia Baconica*, 38, 39
- Clarke, Edward Daniel, 141, 144, 170
- Clayton, Robert, Bishop of Clogher, 107, 108, 117; and a partial Deluge, 108
- Clerk, Sir John, 96, 151, 226
- coffee houses, 96
- Cole, William, 21, 48, 225
- Colepresse, Samuel, 19
- collections, 21-2, 98f, 118; Duchess of Portland's, 98; Leskean, 144; Beaumont's and Cole's, 225
- Continental Earth science, 30-1; mineralogy, 54, 170f
- Conybeare, J. J., 139
- Conybeare, William Daniel, 139, 141, 148, 173, 226, 234; on fossils, 169; *Outlines of the geology*, 182, 211
- cosmogony, 11, 89, 100, 148, 150
- cosmology, 11, 89
- Courteen, William, 21
- Covell, John, 20
- Creation, 65, 89, 154; and theories of the Earth, 74, 82
- Critical review*, 100, 101, 197
- Croft, Herbert, 24, 84
- Cronstedt, A. F., 171
- Cudworth, Ralph, 227
- Cullen, William, 151, 154
- Cuvier, Georges, 157, 213; and Jameson, 169, 209
- Dale, Samuel, 27
- Darwin, Erasmus, 66, 97, 105, 108,

Cambridge University Press

978-0-521-08128-3 - The Making of Geology: Earth Science in Britain, 1660-1815

Roy Porter

Index

[More information](#)

Index

281

- 124, 131, 164, 230; evolution and the history of life, 166
- Davy, Humphry, 141, 145;
Romanticism and geology, 142
- Defoe, Daniel, *Tour*, 103
- Delius, C. T., 115
- Denudation dilemma, 163;
acceptance of great denudation, 164f, 233; fluvialism, 163-5
- Descartes, René, 33; *Principia philosophiae*, 71
- Diderot, Denis, 105
- directionalism, 129
- Dissenters, 140-1, 205
- Dixon, Joshua, 115
- Douglas, James, 92, 159; and age of Earth, 160
- Downes, John, 19
- Dublin Philosophical Society, 19-20, 91-2, 133
- Dublin Society, 20, 144
- Dundonald, Lord, Archibald Cochrane, 151
- Earth: age of, 66, 107, 129; the history of, 66f, 109; relation of Earth history to human history, 66, 85; dispute over the eternity of the Earth, 73f; complexity of Earth history, 161; Whitehurst on age of Earth, 166; Earth's future, 229; the Earth in decay, 41-4, 71f, 229; the Earth as habitat, 66; stability of the Earth, 75, 78, 89, 229; dissolution of the Earth, 82; activity of the Earth, 111, 121
- Earth science, popularization of, 94f
- earthquakes, 15, 73, 106, 123;
Lisbon earthquake, 104, 123
- Edinburgh review*, 101, 148, 152
- Edinburgh University, 151
- Edinburgh University Museum, 144, 152
- Edwards, George, 100, 114, 173
- Encyclopaedia Britannica*, 100, 123, 202, 203
- encyclopaedias, 13, 99
- Enlightenment, 64, 91; and Earth science, 104f; Enlightenment naturalism, 104; hostility towards, 117
- Ercker, Lazarus, 57
- Evelyn, John, 35; his collection, 21
- Farey, John, 136, 137, 209, 234;
Derbyshire, 96, 113, 137, 178; clash with Geological Society of London, 177, 232; and Smith, 179
- Faujas de St Fond, 97, 162
- Ferber, J. J., 97
- fieldwork, within natural history, 37; relations to theories of the Earth, 78f; growth in eighteenth century, 119, 176-83; and stratigraphy, 180
- Fitton, William, 148, 202; on theory, 2
- Foley, Samuel, 36, 40, 224
- Forster, Johann Reinhold, 99, 100, 173
- Forster, Westgarth, 136, 179
- fossils: as *lapides sui generis*, 13, 49; late seventeenth-century debate, 46-53; and extinction, 50, 201; and Abraham de la Pryme, 81; late eighteenth-century views, 165-70, 201; importance of Cuvier, 169; Stonesfield fossils, 236
- Freiberg Mines Academy, 134
- French Revolution, 131, 165
- Gale, Roger, 96
- Gale, Samuel, 96
- Gay, John, 87
- Gentlemen's Societies, 95
- geognosy, and Jameson, 152
- geography, 12
- Geological Society of London, 131, 135, 139, 140, 141, 143, 146, 149, 179, 181f, 213, 233; *Transactions of the G.S.L.*, 134, 148, 169, 207, 234-5; *Geological inquiries of*,

- Geological Soc. of London – *cont.*
 135, 146, 147, 148, 182, 207, 223;
 role in development of British
 geology, 145–50; and
 terminology, 173, 209; promotes
 stratigraphy, 181
- Geological Survey, 140
- geologists, professional surveyors
 etc, 135f; amateurs, 138, 147
- geology: as a new science, 129–33,
 218–22; relations to mineralogy,
 181; popularization of the term,
 202f, definitions, 202f; theory
 and empiricism, 204;
 nomenclature, 209; text-books,
 211–14
- Gesner, 55
- Giant's Causeway, Antrim, 20, 40,
 113, 123, 162, 224
- Gibbon, Edward, 91
- Giesecke, C. L., 20, 144
- Gilks, Moreton, 122
- Glanvill, Joseph, 18, 20, 54
- Goldsmith, Oliver, 106, 108;
History of the earth, 99, 110f
- Graydon, George, 206
- Great Chain of Being, 46, 49, 140,
 154, 183
- Greene, Richard, 98
- Greenough, George Bellas, 140,
 146, 173, 202–3, 210, 217, 234; on
 theory, 2; on history of life, 169,
 208; fieldwork, 181f, 186, 232;
Critical examination, 183; his
Map, 148, 181
- Gresham College, 15, 20
- Greville, Charles, 144
- Grew, Nehemiah, 17, 225;
Cosmologia sacra, 68, 69
- Griffith, Richard, 20
- Hailstone, John, 128–9, 144, 163
- Hale, Matthew, *Primitive
 origination*, 12, 67
- Hall, Sir James, 141, 145, 149, 163,
 175, 186, 196, 234; and
 controversy, 152; and denudation,
 163–4; and fieldwork, 232
- Halley, Edmond, 24, 45, 105, 110,
 225; and theories of the Earth,
 62f; and religious beliefs, 64; on
 age of the Earth, 79
- Hamilton, Sir William, 106, 123ff,
 127, 159, 160f, 233; *Observations
 on Mount Vesuvius*, 99; *Campi
 Phlegraei*, 161
- Harris, John, 26, 87, 225; *Lexicon
 technicum*, 59, 109; *Remarks*, 86
- Hatchett, Charles, 133, 139, 173,
 180
- Hauksbee, Francis, 79
- Hawkins, John, 134, 209
- Hermeticism, 11, 13, 33; and
 fossils, 49
- Hervey, Augustus, 123, 162
- Heton, Thomas, 57, 60
- Hill, Sir John, 100, 114, 173
- Hobbs, William, *The Earth
 generated and anatomized*, 14–
 15, 70, 225
- Holloway, Benjamin, 26, 119, 231
- Holmes, J. H. H., 178
- Home, Sir Everard, on fossils, 169
- Hooke, Robert, ix, 3, 16, 36, 81, 92,
 225; on collections, 17; on fossils,
 47; *Micrographia*, 47, 82;
Posthumous works, 47; and
 strata, 60, 118; and theories of
 the Earth, 62f, 72f, 82–3;
 'Discourse of earthquakes', 82; on
 age of Earth, 228
- Hooson, William, 115
- Hope, Thomas Charles, 144, 145,
 154, 170
- Hopetoun, Earl of, 151
- Horner, Leonard, 136, 139, 146,
 163–4, 182, 214, 235
- Houghton, Thomas, 57
- Howard, Philip, 165, 196
- Hume, David, 105, 189, 235
- Hunter, John, 159, 160, 170, 203,
 236; on fossils, 167
- Hunter, William, 122, 159; on
 fossils, 167
- Hutchinson, John, 26, 116;
Moses's Principia, 77, 116

- Hutchinsonianism, 12, 116
- Hutton, James, 3, 66, 97, 105, 107, 108, 123, 124, 131, 145, 149, 150, 151, 159, 164, 175, 206, 216, 226, 231, 233, 235, 236; Hutton–Werner debate, 145, 152, 161, 175; distinctiveness of Huttonian geology, 150, 155–6; and the Royal Society of Edinburgh, 151; and utility, 153; and theory, 204; and denudation, 163; and fossils, 166; *Theory of the earth*, 184–96, 198; his fieldwork, 185; and Scottish geology, 185; on granite, 187; on creation of strata, 189; on denudation, 188; his milieu, 189; *Investigations*, 190; his epistemology, 190–1; his Deism, 192; cycles of Nature, 193; organic philosophy, 193, 195; chemical and physical views, 194; Uniformitarianism, 194, 196; Plutonism, 194
- Industrial Revolution, 131
- itinerant lecturers, 99
- J. C., *The compleat collier*, 59, 60
- Jameson, Robert, 98, 144, 149, 150, 151, 153, 154, 163, 170, 172, 173, 174, 209, 234; and the Wernerian Natural History Society, 145; and Werner, 154; and Cuvier, 169
- Keill, John, 24, 26, 225, 229, 230; and theories of the Earth, 62f; *Introduction to natural philosophy*, 68; *Examination of Dr. Burnet's theory*, 84
- Keir, James, 96, 97, 230, 231
- Kentmann, 55
- Kidd, John, 144, 234; on theory, 1, 210; *Essay*, 183
- King, William, 224
- Kircher, Athanasius, 18, 71; *Mundus subterraneus*, 30
- Kirwan, Richard, 96, 131, 145, 160, 172, 174, 185, 196, 210; on geology and cosmogony, 3; on geology and mineralogy, 157–8, 203; *Elements of mineralogy*, 158, 171; *Geological essays*, 158; on Hutton, 187; and religion, 198, 199
- Koenig, Charles, 98, 144
- L. P., *Two essays*, 86, 229, 230
- Lamarck, J.-B., 170
- Lamarde, W., 12
- landforms, 15; seventeenth-century views, 41–6; late eighteenth-century developments, 160–5
- landscape, attitudes towards, 102–3
- landscape painting, 102
- lapidaries, 13
- Leigh, Charles, 24, 25, 224, 225; and minerals, 54; and strata, 58
- Leland, J., 12
- Lever, Sir Ashton, 98
- Lhwyd, Edward, 20, 25, 27, 34, 43, 59, 80, 225, 226; and questionnaires, 18, 36, 227; and Ashmolean Museum, 21; *Lithophylacii*, 21, 28, 37, 39, 48, 80; and natural history, 24, 33f, 79, 229; and travels, 35; and fossils, 47f; and strata, 58
- libraries, 98f
- Linden, D. W., 115
- Linnaeus, 171
- Lister, Martin, 24, 27, 36, 40, 42, 225, 226; and natural history, 33f; on fossils, 47f; *Historia conchyliorum*, 47
- Locke, John, 62, 105
- London, geology in, 140–2
- Lough Neagh, 20
- Lovell, Archibald, *Summary of material heads*, 83
- Luc, Jean André de, 97, 101, 131, 159, 185, 196, 206; geology and natural history, 157, 203, 236; and denudation, 165; on fossils and life, 166; on Hutton, 187;

Cambridge University Press

978-0-521-08128-3 - The Making of Geology: Earth Science in Britain, 1660-1815

Roy Porter

Index

[More information](#)

284

Luc, Jean André de – *cont.*
 on religion, 198; his theory of the Earth, 199–200; *Elementary treatise*, 211

Lunar Society of Birmingham, 97, 124, 133, 230

Lustkin, J., 227

Lyell, Charles, 3, 129, 144, 183, 209, 216, 223; *Principles of geology*, 2

MacCulloch, John, 139, 169, 172, 234

Mackenzie, Sir George, 145

Maillet, Benoit de, 105, 108

Manchester Literary and Philosophical Society, 133

maps, 17, 36

Martin, Benjamin, 100

Martin, Edward, 136

Martin, William, 167

Mason, Charles, 95, 117, 230; fieldwork, 119

Maton, W. G., 142, 162, 173, 234; *Tour of the Western counties*, 99; and maps, 180

Maty, Matthew, 98

Maty, Paul, 98

Mendes da Costa, Emmanuel, 95, 99, 100, 114, 173, 231; and natural history, 114–15

Merret, Christopher, 54, 225

Merton, R. K., 4

meteorology, 11

Michell, John, 95, 117, 176, 177, 230, 231; fieldwork, 119; and development of stratigraphy, 120; and earthquakes, 121

Mills, Abraham, 162

mineral dealers, 144

mineral laboratories, 171

mineralogy, 100; late seventeenth-century, 53–7; eighteenth-century changes, 170–6; classifications, 171; relations with geology, 171f; Wernerian mineralogy, 173f

minerals, 15; classifications, 55, 56

Index

mining, 15, 58; literature in eighteenth century, 115; and geology, 132f, 135

miracles, 86, 201; and Burnet, 73; and Keill, 75; and Woodward, 75, 77

Molyneux, Thomas, 20, 36, 40, 224, 227

Molyneux, William, 20, 36, 40, 224

Monthly magazine, 134

Monthly review, 101, 160

Moray, Sir Robert, 57, 150

Morris, Lewis, 97, 112, 227

Morton, John, 24, 25, 26, 27, 79, 223, 225, 226, 227–8; *Northamptonshire*, 39; and natural history, 39f; and minerals, 54; and strata, 54

mountains, aesthetics of, 85; travelling among, 102

Murchison, R. I., 183

Murray, Sir A., 151

Murray, John: *Comparative view*, 152, 175; on Hutton, 187, 195

museums, 98f

Mushet, David, 136

natural history, 13, 91, 223; its methods and assumptions, 32–41; its development in eighteenth century, 112f

natural theology, 44, 69, 101; and denudation dilemma, 45–6

Nature: uniformity of, 51, 126, 161, 210; continuity of, 53; principles of, 68; its passivity, 73; Enlightenment view of, 108; seen on the grand scale, 146

neo-Platonism, 13, 33, 78

Neptunism, 159, 163, 174, 214; and mineralogy, 174

Newcastle Literary and Philosophical Society, 133–4, 135, 145, 232, 234

Newton, Sir Isaac, and theories of the Earth, 62, 77, 79, 125

Newtonianism, 60, 108, 205; and theories of the Earth, 77, 89

- Nicholson, William, 139
 Nicol, T., *Lapidary*, 13
 Nicholson, William, 24, 26, 27, 47, 58, 225
 Nixon, Rev. John, 216, 236
 Noachian Deluge, 50, 67, 224, 229;
 and fossils, 50f; and theories of
 the Earth, 75, 85; explanations
 of the, 75, 82, 87; partial, 107;
 Catcott's views, 116-17;
 Whitehurst's views, 125;
 diluvialism and, 209
- Oldenburg, Henry, 16-19, 34, 92
 Outram, Benjamin, 136
 Owen, Edward, 112
 Oxford Philosophical Society, 19,
 91-2, 133
 Oxford University, geological
 lecturing in, 144
- Paley, William, 101, 227
 Paracelsus, 71
 Paris, J. A., 204, 208
 Parkinson, James, 166, 182, 183,
 217, 232; and history of life, 167,
 234; *Organic remains of a
 former world*, 168
 Parsons, J., 231
 Paschall, Andrew, 19
 Pennant, Thomas, 102, 114; and
 strata, 120
 Pepys, Samuel, 62
 Pepys, William, 139, 232
 Petiver, James, 21
 Phillips, John, 48, 137
 Phillips, Richard, 139, 232
 Phillips, William, 139, 173, 232;
Outlines of the geology . . . , 182,
 211; *An outline of mineralogy
 and geology*, 213-14
Philosophical magazine, 143, 178,
 202, 236
 Philosophical Society (Edinburgh),
 151
Philosophical transactions, 57, 80,
 94-5, 111, 112, 113, 161;
 Queries in, 18-19, 54, 57, 59
 picturesque, the, 103
 Pigot, Thomas, 42
 Pilkington, James, 112
 Platonism, 11, 29; and fossils, 49
 Platt, Joshua, 114, 166, 231
 Plattes, Gabriel, 14, 71
 Playfair, John, ix, 145, 148, 149,
 186, 196, 209; on theory, 1, 207,
 226; 232; and time, 110;
Illustrations, 210
 Plot, Robert, 20, 24, 27, 34, 92,
 224, 225; *Oxford-shire*, 13, 25,
 38; and Oxford Philosophical
 Society, 19; and Ashmolean
 Museum, 21; and questionnaires,
 36; on fossils, 47; on minerals,
 54; on strata, 58
 Plutonism, 175; and Hutton, 194
 Plymley, Joseph, 113
 Pococke, Richard, 102, 103, 113-14
 provincial culture, 93f
 provincial science, 135
 Pryce, William, 115, 135
 Pryme, Abraham de la, 24, 42,
 80-1, 225, 227
- Queensbury, Duke of, 151
 questionnaires, natural history, 36
- Ramsey, John, of Ochtertyre, 217
 Rashleigh, Philip, 144
 Raspe, Rudolf Erich, 97, 107, 123,
 174; *On the German volcanoes*,
 99; as translator, 101
 Rawthmell, John, 48
 Ray, John, 23, 24, 27, 28, 29, 34,
 44, 45, 81-2, 101, 105, 225, 227;
 and John Hale, 12; and natural
 history, 35f; on fossils, 47; and
 theories of the Earth, 62f, 229;
Miscellaneous discourses, 65,
 76, 82; *The wisdom of God*, 68,
 69; and Scripture, 70; *Three
 physico-theological discourses*,
 76, 229; *Observations
 topographical*, 82; on age of
 Earth, 228; and final causes, 228
Rees cyclopaedia, 203

- religion: relation to theories of the Earth 63f; changing relation to geology, 197
- Renaissance, world picture, 10-14; and fossils, 49
- Rennie, James, 'Comparative view', 152
- Richardson, Benjamin, 141
- Richardson, Richard, 24, 48, 92, 225, 227; dispute with Woodward, 59-60
- Richardson, William, 176, 204, 233
- Robinson, Tancred, 27, 40, 225
- Robinson, Thomas, 59, 225, 228; *Anatomy of the earth*, 14-15, 70, 229; *Westmorland and Cumberland*, 39, 67; and minerals, 54
- Romanticism, 103; and geology, 141f
- Royal Geological Society of Cornwall, 134, 145; *Transactions*, 139, 169
- Royal Institution, 96
- Royal Irish Academy, 145, 198
- Royal Society of Edinburgh, 145f, 148, 154; and Huttonian geology, 151, 152; *Transactions*, 169
- Royal Society of London, 63, 93, 143, 146; importance to early Earth science, 16-19
- Ruskin, John, ix, 236
- St Aubyn, Sir John, 144
- Saussure, H. B. de, 181; *Agenda*, 183
- Scheuchzer, J. J., 26, 63, 226; and Woodward, 56
- Science, nature of, 3-8
- scientific poetry, 103
- Scilla, A., 19
- Scottish Enlightenment, 151
- Scottish geology, 130, 149-56; Scottish school of geology, 150
- Scriptural geology, 12
- Scripture, 50; relation of theories of Earth to, 11, 65f; irrelevance of, 107; Enlightenment and, 110; and Whitehurst, 126; and Geological Society of London, 148
- Sedgwick, Adam, 183, 202
- Septalius, S. M., 19
- Sharpe, W., 115
- Shaw, Peter, 102
- Shene, Francis, 151, 154
- Sibbald, Robert, 21, 92, 150, 154
- Sinclair, George, 150; *Hydrostaticks*, 59
- Sinclair, Sir John, 113, 153
- Sloane, Sir Hans, 27, 34, 80, 88, 225, 226, 227; his collection, 13, 21; and natural history, 35f; and British Museum, 98
- Smeaton, John, 96, 136, fieldwork, 119
- Smellie, William, 154
- Smith, Adam, 189-90, 235
- Smith, William, 3, 48, 96, 99, 132, 136, 137, 173, 135; on utility of geology, 136; on fossils, 157, 167-8; *Map*, 177, 179, 182; and stratigraphy, 179f; and Geological Society of London, 179
- Smith, Rev. William, 106, 230
- society, relation to theories of the Earth, 87-8
- Society of Antiquaries, 96
- Society of Arts, 96, 139
- Solander, 98
- Somerset Philosophical Society, 20
- Southwell, Sir Robert, 43, 227
- Spectator*, the, 87, 88, 101
- Staffa, 123, 162
- Steele, Richard, 62
- Steno, Nicolaus, 17, 30, 227
- Stillingfleet, Edward, *Origines sacrae*, 11-12, 67, 74, 227
- Strachey, John, sections of, 36, 119
- Strange, Sir John, 123f, 162, 174, 232
- strata, 123; late seventeenth-century study, 57-61; formation of, 109; eighteenth-century

- investigation, 118f; and Whitehurst, 126; and landforms, 160f; Secondary strata, 163; identified by fossils, 168
 stratification: recognition of, 58; Burnet and, 79–80; Michell and, 120
 stratigraphy: eighteenth-century development of, 122, 176–83; and provincial engineers, 138, 176–80; and metropolitan geologists, 180–3; mineralogical roots of, 181
 Stukeley, William, 91, 230; interpretation of the Earth, 117
 sublime, the, 103
 Sullivan, Sir Richard Joseph, 158, 159, 197; on the revolutions of the Earth, 158
 Swift, Jonathan, *Gulliver's travels*, 87

 text-books, 97–100, 211–14
 theories of the Earth: late seventeenth-century, 62f, 87f; their cognitive basis, 64f; late eighteenth-century theories, 130–1, 185–204; and provincial engineers, 137; place of theory in geology, 204f
 Thomson, James, 105
 Thomson, Thomas, 152
 Thomson, William, 144
 Thoresby, Ralph, 21, 23, 225, 227
 Time, 66; and Enlightenment, 109f
 topography, 12; eighteenth-century, 102f
 Toulmin, George Hoggart, 105, 107, 108, 131, 196, 231; on age of Earth, 159
 tourism, 102
 Townsend, Joseph, 196
 Townson, Robert, 138, 158, 171, 172, 173
 travel, 30, 102; growth of, 123f; and geology, 141f
 Tredgold, Thomas, 234

 Turner, 133, 135
 Uniformitarianism, 129, 161, 210; and denudation, 164; and Hutton, 194

 Vernon, William, 20, 27, 225
 Vivian, J. H., 134
 volcanism, 124f, 163, 174, 214; rise of volcanism, 161–6; and Sir William Hamilton, 161
 volcanoes, 16, 73, 159; Vesuvius, 123f, 161; creative in Nature, 162; extinct, 162; in Britain, 162f, 233
 Volney, 105
 Voltaire, 105

 Walcott, John, 114
 Walker, John, 112, 144, 149, 153, 163, 170, 171, 233–4; fieldwork in Highlands, 151; 'Occasional remarks', 154; and natural history, 155
 Wallis, John, 42
 Walpole, Horace, 110
 Warburton, Henry, 147, 203, 236
 Warren, Erasmus, 24, 26, 80, 84, 229; *Geologia*, 83; *Defence*, 83; debate with Burnet, 84
 Watson, Richard, 110, 197
 Watson, White, 136, 137, 177
 Watt, Gregory, 175
 Watt, James, 97
 Webster, John, 15, 225; *Metallographa*, 55
 Webster, Thomas, 182, 183, 232
 Wedgwood, Josiah, 124, 230
 Werner, A. G., 144, 171, 172; Werner–Hutton debate, 145, 152, 175
 Wernerian Natural History Society, 145, 148–9, 151, 152, 154, 209, 232, 233
 Wernerians, 159, 161; and denudation, 163–4
 West, Thomas, 162
 Whewell, William: and palaeological science, 5; on

- Whewell, William, – *cont.*
 geology and mineralogy, 158, 175, 202
- Whiston, William, 23, 26, 30, 88, 92, 99, 225, 226, 229; *New theory*, 34, 45, 69, 76, 87; and theories of the Earth, 62f; on interpretation of Scripture, 69; as a Newtonian, 72, 77, 79; and Scripture, 229
- Whitchurst, John, 76, 96, 97, 101, 108, 110, 117, 232; *Inquiry into the original state*, 124–6; and Derbyshire toadstone, 162
- Williams, John, 136, 154, 196, 232, 233; *Natural history of the mineral kingdom*, 153, 178; and Hutton, 198
- Winch, N. J., 179
- Withering, William, 230
- Wodrow, Robert, 150, 225
- Wollaston, William, 234
- Woodward, John, ix, 20, 25, 43, 58, 80, 87, 88, 92, 100, 225, 226, 229, 230 231; *Fossils of all kinds*, 13, 55; and questionnaires, 18, 36, 227; his collections, 21; his classifications, 21; *Essay*, 34, 44, 45, 75f; *Methodica*, 55; *Attempt*, 56, 58; and strata, 58f, 60, 80, 118; dispute with Richardson, 59–60; and theories of the Earth, 62f; and fossils, 174; opposed by Arbuthnot, 86; and Hutchinsonianism, 116; and Catcott, 116
- Woodwardian professorship, 20, 25, 92, 144
- Worthington, William, 108
- Wotton, William, 84