

Cambridge University Press

978-0-521-62754-2 - Renaissance and Revolution: Humanists, Scholars, Craftsmen and Natural

Philosophers in Early Modern Europe

Edited by J. V. Field and Frank A. J. L. James

Index

[More information](#)

## Index

- abacus books, 73, 94
- abacus schools, 74, 80, 83, 84
- Abbeville, 71
- Ablionby, Dr, 50
- Academia Naturae Curiosorum, German, 59
- Academia Spagirica Nova, *see* Yworth
- Académie des Sciences, Paris, 53, 59, 70, 71, 206
- Accademia del Cimento, Florence, 59, 71
- Accademia Fisico-Matematica, Rome, 217
- acids, 49, 59
- Ackerknecht, E. H., 248
- Acta Medica Hafniensis*, Copenhagen, 59
- action at a distance, 163, 193, 209  
*see also* force
- active principles, 172, 195  
*pre-Newtonian*, 172
- actors' categories, 2, 4
- Actuarius, Johannes (*fl. c. 1250–c. 1300*), 17
- acupuncture, 51
- Adams, Nicholas, 67n
- Adelmann, Howard B., 47n
- Admiralty, 67, 69, 120
- Adriatic, 67
- Aepinus, Franz Ulrich Theodosius (1724–1802), 202
- aether, 193–9, 209  
*interplanetary*, 195  
*see also* matter, subtle
- Aetius (*fl. c. AD 500*), 20, 23, 25
- Africa, 69
- Agricola, Georg Bauer (1490–1555), 23n
- agriculture, 64n, 71
- air, 169, 170  
*resistance of*, 211
- Aiton, Eric J., 203n
- Albertus Magnus (*c. 1200–1280*), 166–8
- alchemy, 31–3, 157, 167, 170, 173–91, 195, 242, 247
- Arab, 166, 167, 170
- Greek, 165
- Syriac, 165
- transmutation, 157
- Aldebaran, 105
- Alderotti, Taddeo (1215–1295), 15
- Aldine Press, 17, 19, 20, 23–5
- Aldrovandi, Ulisse (1522–1605), 231
- Alessio Piemontese, *see* Ruscelli, Girolamo
- Alexander, A. F. O'D., 116n
- Alexander of Tralles (*fl. c. AD 540*), 20
- Alfonso II, Duke of Ferrara, 41
- Algarotti, Francesco (1712–1764), 12, 222, 223, 233
- algebra, 74, 81, 85, 93, 124
- Alidosi, Giovanni Nicolo, 232
- Alighieri, Dante (1265–1321), 73, 95
- alkalis, 49, 59
- allegories, 56
- Allen, Woody, 161
- Alpers, Svetlana, 112, 113
- Al-Rāzī, *see* al-Rāzī
- Al-Tūsī, *see* al-Tūsī
- Alva, Duke of, 67
- amber, 161–3, 200, 201, 242
- Ames, William (1576–1633), 63n
- Amsterdam, 51, 52, 54, 59, 60, 235
- Athenaeum, 51, 54
- botanical garden, 54, 58
- Pietersgasthuis, 52, 54
- Surgeons' Guild, 56
- Anabaptists, 155n
- anatomy, 16, 24, 50, 52–4, 56, 60, 65, 72, 230  
*comparative*, 52, 53  
*preparations*, 53, 56–8, 72  
*theatres*, 55, 58, 59, 231
- Ancona, 232
- Anderson, Robert (*fl. 1668–1696*), 128, 129
- André, François, 49n
- angelic electuary, 37
- angle bastion, 66, 67
- animals, 35, 48, 56, 58  
*ruminant*, 50

antimony, 37, 176  
 antiquarianism, 17, 18, 28  
*Antyllus*, 21  
 Apollonius of Perga (late 3rd cent. BC), 22n, 25  
 apothecaries, 25, 51, 54, 58  
 apple, 37, 133  
 approximation, 94  
 Arabs, 16, 18, 28n, 165  
     alchemy, 166, 167, 170  
     natural philosophy, 166, 167, 169  
 Arber, Agnes, 45  
 Archimedes (*c.* 287–212 BC), 22n, 25, 140  
     polyhedra, 81–3  
 architecture, 66n, 76, 78, 120, 227  
     classical, 90  
 Aretaeus of Cappadocia (*fl. c.* AD 50), 20, 25  
 Arezzo, 80, 85  
 Aristotelianism, 8, 29, 44, 70n, 94, 134, 139n,  
     142, 143, 166, 167, 168, 170, 171, 200,  
     210, 235, 242  
     Renaissance, 6  
 Aristotle (384–322 BC), 9, 10, 20, 22, 24, 25,  
     28n, 49, 136, 137, 143, 166, 169, 171  
     *Pseudo-*, 134, 136  
     theory of matter, 164ff  
 arithmetic, 67, 74, 81, 93, 95, 126, 138  
 Armitage, Angus, 211n  
 art, 15, 73  
 arteries, 57  
     bronchial, 53  
     pulmonary, 53  
 artillery, 30, 66  
 artisans, 32, 44  
 artists, 41  
 art of history, 244  
 Ascham, Anthony (d. 1650), 152n  
 ash, petrified, 50  
 Ashworth, William B., 48n  
 astrology, 11, 25, 126, 247  
 astronomy, 29, 46, 48, 68, 69, 93, 94, 97–116,  
     138, 223, 230  
     historiography, 9, 242, 244  
     instruments, 129, 133, 232  
     observation, 97–106, 129, 241  
     telescopic, 64, 97–106, 109, 116  
         spurious discs, 98, 106  
     texts, 25, 122–4, 126  
     theory, 61, 81n, 94, 130, 241  
         *see also* optics  
 atomism, 241  
 attraction, 9, 10, 12, 163, 171, 196, 204, 207–9,  
     222  
         *see also* electricity  
 Aubrey, John (1626–1697), 124  
 Austria, 67, 70

authority, 30  
 Avicenna, *see* Ibn Sīnā  
 Azo, R. F., 166n  
 baboons, 43  
 Badaloni, N., 222n  
 Bacon, Francis (1561–1626), 4, 30, 44, 49, 50,  
     64, 70, 110, 229, 232, 241  
 Baily, Francis (1774–1844), 13, 130n  
 Baker, John, 182n  
 balance, 241  
 balsam, 53  
 Bampfield, Thomas (d. 1693), 156  
 Barbaro, Daniele (1513–1570), 82, 83  
 Barbaro, Ermolao (*c.* 1410–1471), 22n  
 Barlow, Thomas (1607–1691), 151  
 Barnes, Barry, 2n  
 barometer, 72  
 Barrow, Isaac (1630–1677), 138, 139, 145  
 Barozzi, Giacomo, called da Vignola (1507–  
     1573), 82n  
 Bartholin, Caspar (1585–1629), 54, 59  
 Basle, 23, 24, 26, 27  
 Batavia, 50  
 Bauman, Richard, 154n  
 Bausch, Johann Lorenz (1605–1665), 59  
 Baxter, Richard (1615–1691), 150, 156  
 Beaumont, Simon van (1574–1654), 55  
 Bebel, Johann (d. 1550), 24  
 Beccari, Jacopo Bartolomeo (1682–1766), 232  
 Becher, Johann Joachim (1635–1682), 144, 168  
 Beckmann, Martin, 121  
 Bedford, 5th Earl of, 124  
 Bedwell, Thomas (1546–1595), 121  
 Beeckman, Isaac (1588–1637), 143, 144  
 Bellarmino, Roberto (1542–1621), 63n, 98n  
 Beltrami, Luca, 68n  
 Benedetti, Alessandro (d. 1512), 21  
 Benedetti, Giovanni Battista (1530–1590), 135n  
 Benedict XIII (1649–1730), 230, 234–7  
 Benedict XIV (1675–1758), 223, 229–37  
 Bennett, J. A., 117n, 142  
 Bentinck, Hans Willem, 54  
 Bentivoglio, Luigi, 230  
 Bentley, Richard (1662–1742), 195  
 Berengario da Carpi, Giacomo (1460–1530),  
     20n  
 Bernoulli, Johann (1667–1748), 144  
 Bernoulli, Nicolas (1687–1759), 217  
 Berthelot, Pierre Eugène Marcellin (1827–  
     1907), 165n  
 Bessarion, Johannes (1402–1472), 21, 22n  
 Besson, Jacques, 112  
 Beukers, Harm, 53n  
 Beuningen, Coenraad van (1622–1693), 53

Cambridge University Press

978-0-521-62754-2 - Renaissance and Revolution: Humanists, Scholars, Craftsmen and Natural

Philosophers in Early Modern Europe

Edited by J. V. Field and Frank A. J. L. James

Index

[More information](#)

## Index

275

- Beverning, Hieronymus (1614–1690), 54, 55  
 Biancani, Giuseppe (1566–1624), 138  
 Bianchini, Angelo, 216  
 Bianchini, Francesco (1662–1792), 216, 217, 223  
 biblical references  
     Adam, 56  
     Creation, 37, 49  
     Eve, 56  
     Exodus 20.7, 154  
     Garden of Eden, 37, 44, 54, 60  
     Gomorrah, 42  
     Holy Ghost, 151  
     Isaiah 40.26, 115  
     Jonah, 42  
     Matthew 5.34, 154  
     Nineveh, 42  
     Psalm 111, 115  
     Sermon on the Mount, 154  
     Sodom, 42  
     Ten Commandments, 154  
 bindweed, 37  
 biology, 47, 244  
 Birch, Thomas (1705–1766), 50, 98n, 128n, 149, 150, 154n, 155, 156  
 birds, 48  
 Birkmann, A., 24  
 Bisterfield, Johann Heinrich (*c.* 1605–1655), 63n  
 bladder, 57  
 Blasius, Gerard, 52, 54  
 blasphemy, 42, 151  
 Blastos, 20n, 23  
 blessed oil, 37  
 Block, Agnes, 55  
 bloodletting, 35, 38  
 Boas, George, 248  
 Boas, Marie *see* Hall, Marie Boas  
 body politic, 41–3  
 Boehme, Jacob (1575–1624), 63n  
 Boij, Adolph, 110n, 114, 115  
 Bolgar, R., 22n  
 Bologna, 12, 26, 33, 42, 43, 68, 219–23  
     Istituto delle Scienze e delle Arti, 222, 229–37  
     Accademia Clementina, 233  
     Accademia dei Pittori, Scultori e Architetti, 233  
     library, 234  
     Specola, 233  
 Istituto di Anatomia Umana, 231  
 medical school, 32  
 University, 231  
 Bolletti, G. G., 231n  
 Boleyn, Anne (1507–1536), 246  
 Bombelli, Rafael (1526–1572), 68  
 Bonamico, 22n  
 Bonardus, Diomedes, 21  
 Bonelli, M. L., 232n  
 Book of Nature, 29, 94  
 books, 43  
     Battle of, 240  
     *see also* printing  
 Borel, Pierre (*c.* 1620–1671), 176  
 Borelli, Antonio (1608–1679), 230  
 Borghese, Prince, 50  
 Boscovich, Roger Joseph (1711–1787), 220, 223, 233  
 botanical gardens, 54, 55, 58, 59  
 botany, 16, 18, 24ff, 47, 50, 52, 54, 60  
 Botfield, Beriah, 20n  
 Bourignon, Antoinette (1616–1680), 53  
 Bovio, Tommaso Zerfiriele (1521–1609), 39, 40  
 Boxer, Charles R., 52n  
 Boyle, Richard, *see* Cork, Earl of  
 Boyle, Robert (1627–1691), 2, 3, 12, 44, 46, 48, 59, 65n, 104n, 131, 141, 145, 147–59, 162, 164, 172, 194, 205, 232, 243  
     as dedicatee, 154, 186  
 autobiographical notes, 157  
 experiments, 158  
 Holy orders, 153  
 oaths, 153–7  
 political programme, 152  
 probabilism, 159  
 Royal Society, 153–6, 159  
 scrupulosity, 152, 157, 158  
 social functionalist interpretation of, 152, 153, 156, 157, 159  
 stutter, 148  
 valetudinarianism, 157  
 Brahe, Tycho (1546–1601), 4, 5, 133  
 brain, 197  
 Brasavola, Antonius Musa (1500–1555), 25  
 Braudel, Fernand, 71n, 244  
 Brera astronomical observatory, 233  
 Brewster, David (1781–1868), 6, 8, 13  
 bridges, 70  
 Briggs, Henry (1561–1630), 121  
 Briggs, John C., 49n  
 Britain, 28, 243, 247  
 British Society for the History of Science, 5  
 Bronowski, J., 46n  
 Brooke, John, 7  
 Brouncker, William (*c.* 1620–1684), 128  
 Browne, Sir Thomas (1605–1682), 49, 162  
 Brugmans, H., 52n  
 Brunet, J., 203n  
 Bruno, Giordano (1548–1600), 246  
 Buck, A., 15n

Cambridge University Press

978-0-521-62754-2 - Renaissance and Revolution: Humanists, Scholars, Craftsmen and Natural Philosophers in Early Modern Europe

Edited by J. V. Field and Frank A. J. L. James

Index

[More information](#)

276

## Index

Bulgarini, Lucrezia, 230  
 Bunyan, John (1628–1688), 149  
 Buonarroti, Michelangelo, *see* Michelangelo  
 Burnet, Gilbert (1643–1715), 148, 150n, 151,  
     155, 157, 158  
 Burtt, E. A., 46, 243, 248  
 Busschof, Hermann, 51  
 Butterfield, Herbert, 12, 13, 240  
 butterflies, 52, 56  
 cabinets of curiosities, 5, 231, 232, 234  
     *see also* collecting  
 Caen, 59  
     Académie de Physique, 68  
 Caius, John (1510–1573), 17, 26  
 Calabria, 32  
 calcination, 166  
 calculi, *see* stones  
 calculus, 12, 68  
     dispute, 217  
     infinitesimal, 94  
 Callierges, 20n, 23  
 Calvinism, 246  
 Cambridge, 178  
 camera obscura, 102  
 Campani, Giuseppe (1635–1715), 116, 232  
 Campanus, Johannes, of Novara (13th cent.)  
     26, 81n  
 Camporesi, Piero, 38n, 39, 40, 43n  
 canals, 68  
 cannon, 66, 67, 118, 211  
 Canni, Nicholas, 151n  
 Cantor, Geoffrey N., 7n  
 capitalism, 246  
 Carcavy, Pierre (d. 1684), 144n  
 Cardano, Girolamo (1501–1576), 67, 70  
 Carder, Robert W., 111n  
 Carlowitz, Peace of, 70  
 Carrara, Daniele Mugnai, 22n  
 Carroll, Lewis (Dodgson, Charles Lutwidge,  
     1832–1898), 2  
 Carter, B. A. R., 76n, 78  
 cartography, 64n, 66, 69–72  
 Casini, Paolo, 4, 6, 12  
 Cassini, Giovanni Domenico I (1625–1712), 69,  
     70, 215, 230  
 Cassini, Jacques II (1677–1756), 69  
 Castelli, Benedetto (1578–1643), 64, 68, 98n  
 Castilloneus, Johannes (1704–1791), 223  
 casuistry, 148n, 150ff  
 catharsis, 41  
 caterpillar, 52  
 causes, 34, 48, 49, 202, 209, 212, 246  
 Cavalieri, Bonaventura (1589–1647), 229  
 Cavazza, M., 231n

celestial motions, 245  
 Cellius, M. A., 215  
 Celsus, Aulus Cornelius (*fl. c.* AD 25), 16  
 Cervantes, Miguel de (1547–1616), 32  
 Ceulen, Ludolph van (1540–1610), 67  
 Ceva, Giovanni (*c.* 1647–1734), 68  
 Chalcondylas, Demetrios (*c.* 1424–1511), 20n  
 Chales, Claude Milliet de (1621–1678), 126  
 Chamberlayne, Edward (1616–1703), 117n  
 chameleon, 145n, 161–4, 172  
 charlatans, 30, 31, 40  
 Charles II, King of England (1630–1685), 117,  
     126  
 Charleton, Walter (1620–1707), 161–3, 167,  
     171, 172, 194, 241  
 charts  
     plain, 69  
     portulan, 69  
 Chasles, Michel (1793–1880), 248  
 Chastel, A., 2n  
 Chelsea College observatory, 129  
 Chelsea Physic Garden, 50  
 chemical remedies, 181, 182  
 chemistry, 48, 52, 54, 58, 170, 190, 232  
     applications, 71  
     history of, 164  
     practical, 186  
 chest, 53  
 Chiana valley, 68  
 Chicheley, Thomas (1618–1699), 118, 128  
 Chile, 70  
 Chipman, R. A., 163n  
 chorography, 48  
 Christie, J. R. R., 6n  
 Christie, Richard Copley, 126n  
 Christ's Hospital, 130  
 chyle, 50  
 civil engineering, 66n  
 Clagett, Marshall, 136n, 137  
 Clarke, Arthur C., 2n  
 Classen, J., 111n  
 Clavius, Christopher (1537–1612), 98n  
 Cleidophorus Mystagogus, 173–91  
 Clement XI (1649–1721), 233  
 Clement XII (1652–1740), 231  
 Clement XIII (1693–1769), 222  
 clocks, 64, 72, 126, 129  
 Clough, C. H., 22n  
 cysters, 30  
 Coccaeus, Jacobus (b. 1615), 97, 98  
 Coccaeus, Johannes (1603–1669), 98n  
 Codro, Urceo (1446–1500), 21  
 Cohen, I. Bernard, 1, 137n, 203n, 240, 244–6  
 cohesion, 10, 164–6, 168–70, 172, 196, 198  
 Coimbra, 69

Cambridge University Press

978-0-521-62754-2 - Renaissance and Revolution: Humanists, Scholars, Craftsmen and Natural Philosophers in Early Modern Europe  
 Edited by J. V. Field and Frank A. J. L. James  
 Index  
[More information](#)

## Index

277

- Colbert, Jean-Baptiste (1619–1683), 59, 71  
 cold, 168  
 Cole, F. J., 45  
 Cologne, 24  
 collecting, 51, 54–8  
*see also* cabinets of curiosities  
 Collège de France, 139  
 Collegio Clementino, Rome, 230  
 Collegio Romano (Jesuit), 98n, 220, 223, 233  
 Collegium Chymicum, *see* Yworth  
 Collegium Medicum Privatum, Amsterdam, 52–4, 59  
 Collins, John (1625–1683), 121, 122n, 127–9  
 colour, 76, 78, 79, 90, 217  
 comets, 208, 215  
 Commandino, Federico (1509–1575), 26, 241  
 compass, 64, 69  
 composition, pictorial, 76  
 conscience, cases of, *see* casuistry  
 Constantinople, 233  
 Conti, Antonio (1677–1748), 216, 217, 222  
 Conti, Luigi de', 178n  
*Convolvulus*, 37  
 Cook, Harولد J., 3, 5, 8, 10, 11, 27n, 39n, 244  
 Copenhagen, 54, 59, 63, 68  
 Copernican Revolution, 9, 46, 240  
 Copernicanism, 9  
 Copernicus, Nicolaus (1473–1543), 5, 61, 66, 232, 241, 242, 246  
 Cork, Richard Boyle, Earl of (1566–1643), 151  
 Cornarius, Janus (1500–1558), 19, 24, 26  
 correspondences, theory of, 31  
 Cosimo, *see* Medici  
 cosmology, 48, 99  
 Cospi, Ferdinando (1606–1686), 231  
 Coste, Pierre (1668–1747), 217  
 Cotes, Roger (1682–1716), 204n  
 court jester, 42  
 craft, 11, 94, 113  
 craftsmen, 11, 30, 44, 71, 74, 93, 109, 117, 141  
 kidnapping, 77  
 Craig, John, 118n  
 Cromwell, Oliver (1599–1658), 152  
 Cromwell, Richard (1629–1712), 156  
 Crudeli, Tommaso, 223  
 cultural history, 3, 47  
 Cunningham, Andrew, 2n, 135n  
 curiosities, cabinets of, *see* cabinets  
 Dal Fiume, Antonio, 39n  
 Dall'Osso, Eugenio, 33n  
 Dante, *see* Alighieri  
 Danti, Egnazio (1536–1586), 70, 82, 83  
 Danzig, *see* Gdańsk  
 Dartmouth, Lord, *see* Legge, George  
 Darwin, Charles Robert (1809–1882), 6, 245  
 Dary, Michael (1613–1679), 127, 128  
 Daston, Lorraine J., 46n, 48n  
 Davis, Edward B., 158  
 day fatality, 148, 149  
 Dear, Peter, 47n  
 De Beer, G. R., 49n  
 Debus, Allen, 29n, 47, 171n  
 De Dominis, Marco Antonio (1566–1624), 104, 215  
 Dee, John (1527–1608), 69, 131  
 De Fline, Philips, 55  
 De Gandt, François, 134n  
 De Gomme, Bernard (*fl.* 1644–1685), 120  
 De Groot, Jan Cornelis (1554–1640), 28  
 Delamain, Richard (*fl.* 1641–1654), 121  
 Demandt, Alexander, 15n  
 demons, 40, 41  
 Demosthenes (385–322 BC), 27  
 Denmark, 29, 54, 59  
 Dennis, Michael Aaron, 44n, 116n  
 Denton, William (1605–1691), 157  
 Denys, St (*fl.* AD 250), 13  
 De Passe, Crispijn (1589–1637), 55  
 De Ruis, Ernst Heinrich (*fl.* 1670–1685), 121  
 Desaguliers, John Theophilus (1683–1744), 199, 219, 220, 222, 223  
 Descartes, René (1596–1650), 9, 135, 164, 194, 195, 209, 241  
 aether, 199, 202  
 Cartesianism, 52, 54, 175, 206, 208, 210  
 anti-, 216  
 mathematics, 67  
 medicine, 60, 65n  
 methodology, 210  
 optics, 104  
 philosophy, 203, 205  
*see also* vortex theory of planetary motion  
 Desmaret, Daniel, 55  
 determinism, 47  
 De Zan, M., 223n  
 diabolism, 39  
 diagrams, 112  
 dicotyledons, 59  
 diet, 35, 38, 39  
 Digby, Kenelm (1603–1665), 161, 162, 164, 167, 172  
 Dijksterhuis, E. J., 9, 46  
 Diophantus of Alexandria (*fl.* AD 250), 25  
 Dioscorides, Pedanius (*fl.* AD 50–70), 15, 20, 22n, 24, 25, 48  
 disciplinary boundaries, 95  
 discovery, 45, 49  
 discs, spurious, *see* astronomy, telescopic  
*disegno*, *see* drawing

Cambridge University Press

978-0-521-62754-2 - Renaissance and Revolution: Humanists, Scholars, Craftsmen and Natural

Philosophers in Early Modern Europe

Edited by J. V. Field and Frank A. J. L. James

Index

[More information](#)

278

## Index

dissection, 52, 53, 72  
 distillation, 32, 42, 165–7, 169, 182–4  
 distortion in drawing, 92, 116  
 diuretics, 38  
 Dobbs, Betty Jo Teeter, 167n, 173n, 174n, 178, 191n, 195  
 Dobell, Clifford, 247  
 dogs, 35, 50, 52  
 Doni, Anton Francesco (1513–1574), 36  
 Don Juan, son of Philip IV, King of Spain, 67  
 Donzellini, Girolamo (*fl.* 1559–1587), 27  
 dormitive power, 200  
 Douglas, Mary, 41  
 dovecote, 43  
 Dragoni, Giorgio, 4, 8, 12  
 Drake, Stillman, 95n, 134n, 242  
 drawing, 76, 109–13, 116  
 Drebbel, Cornelius (1572–1633), 71  
 Dreyer, J. L. E., 133  
 drugs, 35, 36, 39  
 Dry, Professor, 244  
 Du Chesne, André (1584–1640), 176  
 Duffy, Christopher, 67n  
 Duffy, Eamon, 153n  
 Dugas, René, 137n, 203n  
 Duhem, Pierre, 137n, 247  
 Dull, Professor, 244  
 duodenum, 50  
 Dürer, Albrecht (1471–1528), 84n, 112n  
 Durling, Richard J., 20  
 dynamics, 135–7, 145

Eamon, William, 2, 4, 5, 11  
 Earth  
     as element, 170  
     as planet, 81n, 98, 207, 209, 211, 212, 220  
         figure of, 204, 206, 207  
 earthquakes, 41  
 East Indies, 50  
 Eastwood, Bruce, 16n  
 Ebels, E. J., 22n  
 Ebels-Hoving, B., 22n  
 economic system, 71, 72  
 Edgerton, Samuel Y., 111n, 112n  
 edification, 54–8, 60, 115, 116  
 effluvia, 162, 163  
 eggs, 60  
 Einstein, Albert (1879–1955), 9  
 elasticity, 162–4, 167, 169, 171, 172, 198  
 electricity, 161–4, 193, 196, 199, 200, 202  
     attraction, 161–3, 172, 198–201  
     eighteenth century, 167, 168  
     exhalation, 198, 200  
 elements, four, 165, 168–71  
 Elkins, J., 78n, 92n

ellipse, 94, 124  
 elliptical orbits, 208  
 Elton, G. R., 12n  
 embalming, 53  
 embryology, 65n  
 emetics, 36–40  
 empiricism, 29, 30, 43, 44, 58  
 empirics, 31, 32, 34, 39, 43, 49  
 encyclopaedists, ancient, 23, 48  
 enema, 35  
 engineers, 68, 120, 121  
 engineering, 74  
 England, 22, 50, 69, 217, 234  
     Board of Longitude, 69  
     Church of, 155, 156  
         sacrament of, 155  
     Lord Chancellor, 155  
     Parliament, 156, 182  
         Indemnity Bill, 156  
         Test Act, 156  
     Privy Council, 118, 120  
     engraving, 110–12, 116, 183  
 Enlightenment, 191  
 Erasmus, Desiderius (c. 1436–1566), 22n  
 Espagnet, Jean d' (*fl.* 1633–1650), 178n  
 Euclid of Alexandria (*fl. c.* 300 BC), 25, 26, 74, 93, 104, 121, 131  
*Elements*, 84, 85  
     Book 13, 81  
     Book 15, 81  
*Optics*, 84, 91  
 Euler, Leonhard (1707–1783), 138, 140, 141, 145  
 Europe, Northern, 27, 112  
     art, 113  
 evacuation, 35  
 exorcism, 39, 40, 42  
 expectorants, 38  
 experience, 29, 30, 46, 49  
 experiment, 46, 49, 50, 94, 128, 129, 187, 212, 217, 219, 220, 222, 223, 232, 234, 240, 243  
     quantitative, 188, 189  
 experimental physics, 229  
*experimentum crucis*, 219, 222  
 externalism, 3, 6, 63  
 eye, *see* perspective

Fabri, Honoré (1607–1688), 215–17, 245  
 Fabricius, David (1546–1617), 94n  
 Fagel, Caspar (1629–1680), 55  
 Faille, Jean Charles de la (1597–1652), 67  
 failures, 244  
 Faithful Brethren, *see* Ikhwān al-Ṣafā  
 falling sickness, 38

Cambridge University Press

978-0-521-62754-2 - Renaissance and Revolution: Humanists, Scholars, Craftsmen and Natural

Philosophers in Early Modern Europe

Edited by J. V. Field and Frank A. J. L. James

Index

[More information](#)

## Index

279

- Fantuzzi, Giovanni (*fl.* 1781–1794), 230n  
 Faraday, Michael (1791–1867), 7, 245  
 Farrington, Benjamin, 70  
 Farthing Office, 127  
 Fatio de Duillier, Nicolas (1664–1753), 174–9,  
     191, 204, 208, 209, 213n  
 Fauvel, J., 74n  
 Fellmann, E. A., 203n  
 fencing, 67  
 Ferguson, John, 174n  
 Fermi, Enrico (1901–1954), 9  
 Ferrara, 41, 42  
 Ferrari, Ludovico (1522–1565), 69  
 Ferrari, Marco, 43n  
 Feuillée, Louis (1660–1732), 70  
 fever, 35, 38  
 Field, J. V., 4, 7n, 10, 11  
 Figala, Karin, 2, 12  
 Findlen, Paula, 48n  
 Fine, Oronce (1494–1555), 67  
 Fioravanti, Leonardo (1518–1588), 2, 4, 11,  
     29–44  
 fire, element, 170, 195  
 Firpo, Luigi, 36n  
 fishes, 48, 59  
 Flamsteed, John (1646–1719), 97, 129, 130, 216  
 Florence, 21, 52, 64, 216, 223  
     Fortezza da Basso, 66  
     Palazzo Vecchio, 70  
 fluxions, 217  
 fomentation, 35, 38  
 Fontana, Francesco (1580–1656), 98n, 99, 106  
 Fontenelle, Bernard le Bovier de (1657–1757),  
     222, 240  
 Forbes, A., 122n  
 Forbes, R. J., 165n  
 force, 10, 135, 136, 190, 193, 195–9, 201, 202,  
     206, 208  
     repulsive, 194, 199, 201  
     *see also* action at a distance  
 Forster, L. W., 28n  
 fortification, 64n, 66, 67, 69, 70, 120, 124, 126,  
     128, 129  
 Foster, Samuel (*fl.* 1619–1652), 121  
 Fouke, Daniel C., 51n  
 fountains, 68  
 Fournier, Marian, 51n  
 fragrant goddess, 37, 38  
 France, 23, 31, 48–50, 69–71, 122, 217  
 Francesca, Piero della, *see* Piero della Francesca  
 Franci, R., 74n  
 Francis I, King of France (1494–1547), 67  
 Francissen, Frans P. M., 51n  
 Franck, Sebastian (1499–1542), 63n  
 Franco, Nicolò, 36  
 Frank, Robert G., 50n  
 Frankfurt, 24  
 Freemasonry, 222, 223  
 French, Roger, 21n  
 French language, Newton's knowledge of,  
     176–8  
 Freud, Sigmund (1856–1939), 9  
     Freudian approach, 148  
 Freudenthal, Gad, 10, 12, 145n, 195n, 242  
 Friesland, 50  
 Froben, Johannes (1460–1527), 22n, 26  
 frogs, 52  
 Fuchs, Leonhard (1501–1566), 19  
 Fulton, John F., 154n, 186n  
 Furfaro, Domenico, 31n  
 Furth, Montgomery, 165n  
 Gabbey, Alan, 2–5, 11, 12, 244, 245  
 Gagnebin, Bernard, 209n  
 Galen of Pergamon (AD 129–c. 212), 11, 15–  
     23, 25–7, 28n, 29, 33, 34, 170, 248  
     Pseudo-, 22n  
 Galiani, Celestino (1681–1753), 216–18, 222,  
     223  
 Galilei, Galileo (1564–1642), 59, 64, 74, 95,  
     205, 210, 229, 232, 233, 235  
     astronomy, 9, 69, 70, 133  
     *Collected Works*, 231  
     historiography, 4, 6–8, 46, 242, 248  
     mechanics, 135, 136, 140  
     *Saggiatore*, 94  
     *Sidereus Nuncius*, 13, 98, 99, 104–7, 111–13  
     telescope, 64, 109  
 Galilei, Vincenzo (c. 1520–1591), 95  
 gall, 57  
 Galli, Giovanni Antonio, 232  
 Game Laws, 41  
 Gardair, J. M., 215n  
 Gascoyne, John, 119  
 Gassendi, Pierre (1592–1655), 70, 104, 106,  
     159, 161–3, 171, 172, 194, 241  
 Gauden, John (1605–1662), 154, 157  
 Gdańsk, 97n, 98  
 Geber, *see* Jābir ibn Hayyān  
 Gellibrand, Henry (1597–1636), 121  
 Geminus, Thomas (c. 1510–1562), 63n, 138  
 Gemma Frisius, Reiner (1508–1555), 65n, 69  
 geography, 48, 230  
 geometry, 67, 74, 81, 83, 84, 91, 93, 123, 124,  
     126, 138, 139, 142, 204, 205, 241  
     practical, 121  
 Geneva, 174, 223  
 Gentili, Giuseppe A., 32n  
 Germany, 22, 23, 71  
     art, 113

Cambridge University Press

978-0-521-62754-2 - Renaissance and Revolution: Humanists, Scholars, Craftsmen and Natural

Philosophers in Early Modern Europe

Edited by J. V. Field and Frank A. J. L. James

Index

[More information](#)

280

## Index

Gesner, Conrad (1516–1565), 167  
*gestalt*-switch, 1, 242  
 Giannone, Pietro (1676–1748), 222  
 Giattini, Giovanni Battista (1601–1672), 143  
 Gibbon, Edward (1737–1794), 248  
 Gill, Mary Louise, 165n  
 Gillot, Firmin, 67  
 Ginzberg, Carlo, 43n  
 Giordano, Davide, 31n  
 Giotto di Bondone (*c.* 1266–1337), 73  
 Gjertsen, Derek, 173n  
 glass, 102, 163, 164  
     *see also* lenses; microscopes; telescopes, lenses  
 God, 22, 33, 34, 41, 42, 56, 113, 115, 116,  
     139n, 145, 149, 166, 193, 201, 202  
 Godschall, William Mann, 181  
 Goethe, Johann Wolfgang von (1749–1832),  
     227  
 Golden Age, 36, 37  
 Goldie, Mark, 153n  
 Goldthwaite, R., 95n  
 Golinski, Jan, 173n  
 Gombrich, Sir Ernst, 111  
 Goodman, David, 33n  
 Gospel, Corporation for Propagating in  
     America, 156  
 Gould, Steven Jay, 9  
 Goulston, Theodore (1572–1632), 17  
 gout, 51  
 grain, 41  
 Grandi, Guido (1671–1742), 68, 216  
 's Gravesande, Willem Jacob (1688–1742), 232  
 gravity, 94, 196–201, 203–13, 247  
     Huygens's theory of, 205–7  
     inverse square law, 208, 209, 212, 220  
 Gray, J. J., 74n  
 Gray, Stephen (1666–1736), 163  
 Great Chain of Being, 241  
 Greatorex, Ralph (1625–*c.* 1675), 128  
 Greatrakes, Valentine (1629–1683), 153  
 Greece, Ancient, 4, 10, 11, 241  
 Greek  
     language, 22, 26, 135  
     texts, 16–25  
 Greenberg, J. L., 203n  
 Gregory, David (1659–1708), 190n  
 Gregory, James (1638–1675), 127, 128  
 Grendler, Paul F. 36n  
 Grew, Nehemiah (1641–1712), 50, 141  
 Grimaldi, Francesco Maria (1618–1663), 215  
 Grisogono, Federico (1472–1538), 68  
 Groningen, 50  
 Grössing, H., 26n  
 Gruter, Janus, *see* De Groot, Jan  
 Gryphius, Sebastianus (1493–1556), 23

Gualtieri, Cardinal, 217  
 Guglielmini, Domenico (1655–1710), 68, 215n  
 Guido Ubaldo, *see* Monte  
 Guldin, Paul (1577–1643), 138  
 guns, 120, 122  
 gunners, 117  
 gunnery, 11, 121, 126, 128  
 gunpowder, 118, 120, 126, 128  
 Gunter, Edmund (1581–1626), 121  
 Guerlac, Henry, 196n, 197n, 217  
 gymnastics, 18  
 Haarlem, 55  
 Hacking, Ian, 159n  
 Hague, The, 51, 54, 55  
 Hale, John R., 66n  
 Hall, A. Rupert, 1n, 6, 12–14, 46, 47, 66n, 117,  
     128, 174, 190, 194n, 203n, 215, 217,  
     223n  
 Hall, Marie Boas, 2n, 6n, 23n, 25n, 47, 147,  
     149, 190  
 Haller, William, 149  
 Halley, Edmond (*c.* 1656–1743), 67, 69, 97  
 hamous, 171, 241  
 Hannaway, Owen, 7n  
 Hanson, Russ, 242  
 harbours, 68  
 Harley, David, 33n  
 Harriot, Thomas (*c.* 1560–1621), 70  
 Harrison, John, 173, 174, 215  
 Hartlib, Samuel (d. 1662), 141  
 Hartmann, K., 15n  
 Harvey, William (1578–1657), 4, 7, 8, 10, 15,  
     17, 27, 241  
 Harwood, John T., 158  
 Hatfield, Gary, 46n  
 Hauksbee, Francis (*c.* 1666–1713), 196, 199,  
     201n, 216  
 Haultin, P., 24  
 Hawkeshead Grammar School, 126  
 Hay, C., 74n  
 Haydn, Hiram, 30n  
 Haynes, R., 229n  
 Hayward, William, 119  
 head, human, drawing of, 85  
 heat, subterranean, 50  
 Heckscher, W. S., 55n  
 Heesakkers, Chris L., 52n  
 Heilbron, John, 8n, 164n, 217n  
 Helena, mother of Emperor Constantine I  
     (AD 247–327), 90  
 Heliodorus of Larissa (1st cent. AD), 21  
 helioscopium, 104  
 Hell, 43  
 hellebore, 37, 40

- Helmont, Joan Baptista van (1577–1644), 183, 186, 190n  
 Heniger, Johann, 55n  
 Henning, B. D., 156n  
 Henry, John, 9n, 47n, 172  
 Henry, Joseph (1797–1878), 245  
 Henry VIII, King of England (1491–1547), 118, 246  
 Henry the Navigator, Prince of Portugal (1394–1460), 69  
 hens, 35  
 herbs, 48  
 Hérigone, Pierre (d. c. 1643), 138  
 Herivel, John, 137n  
 Hermann, Jakob (1678–1733), 217  
 Hermannus, Paulus, 54, 55n  
 Hermes/Mercury, 124  
 Hermetic philosophy, 15, 48, 175n, 177–9, 183, 190n, 191  
 Hero of Alexandria (*fl.* AD 62), 22n, 25  
 herring, 52n  
 Hesiod (9th cent. BC), 36  
 Hevelius, Johannes (1611–1689), 11, 97–116  
 Hill, Christopher, 8n, 156n  
 Hippocrates of Cos (460–c. 370 BC), 11, 16–20, 22, 23, 25, 27, 28n, 29, 33, 48  
     *Pseudo-*, 165  
 Hirzgarter, Matthias, 106  
 Hoare, James (d. 1679), 127  
 Hobbes, Thomas (1588–1679), 137, 200, 247  
 Hollar, Wenceslaus (1607–1677), 124  
 Hollister-Short, Graham, 71n  
 Holmes, George, 73n  
 Home, R. W., 2, 12  
 Homer, 2n, 22, 27  
 Hone, Joseph (*fl.* 1670–1685), 121  
 Hooke, Robert (1635–1703), 5, 6, 44, 47, 50, 60, 69, 97, 116, 128, 131, 154  
     *Micrographia*, 116  
 Horne, Johannes van (1621–1670), 52, 53  
 horses, 35  
 Horsley, Samuel (1733–1806), 181  
 Hortensius, Martinus (1605)–1639), 105  
 house, drawing of, 84, 85, 90  
 Houzeau, J. C., 244  
 Howard, Rio, 59n  
 Howse, D., 129n  
 Hübner, Jürgen, 7  
 Hudde, Johannes (1628–1704), 52  
 human dissections, 59  
 human skeletons, 55  
     babies, 56, 57  
 humanism, 4, 15, 20, 22–5, 58, 73, 74, 95, 113, 122, 126, 248  
 humanists, 10, 41  
 humours 35, 39, 40  
     corrupt, 35, 36  
 hunt, Pan's, *see* Pan, hunt of  
 Hunter, Michael, 2–4, 5n, 12, 50n, 128n, 243  
 Husain, Hidāyat, 166n  
 Hutchison, Keith, 47n, 200n  
 Huyberts, 57  
 Huygens, Christiaan (1629–1695), 12, 69, 98n, 144, 203–13  
     *Horologium oscillatorium*, 204, 205  
     theory of gravity, 205–7  
 Huygens, Constantijn (1596–1687), 51, 67, 135, 143, 205  
 hydraulic engineering, 64, 66–8, 71, 72  
 hydrography, 230  
 Ibn Sīnā (980–1037), 11, 33, 34, 166  
 Iceland spar, 204  
 Ikhwān al-Ṣafā, 169  
 imagination, visual, *see* visual imagination  
 impulse, 202  
 incunable editions, 16  
 indigo, 50  
 indivisibles, 94  
 induction, 212, 213  
 inflammability, 167  
 Ingegno, Alfonso, 39n  
 Innocence, Age of, 36  
 Inquisition, 216, 222–7, 247  
 insects, 48, 51, 52, 72  
 instrumentation, 64, 72, 217, 232, 233, 241, 247  
     *see also* astronomy, instruments; microscope; telescope  
 internalism, 3, 6, 63, 159  
 Interregnum, 152  
 intestines, 50, 58  
 Ireland, Rebellion, 148  
 iron, *see* magnetism  
 ISIS, 248  
 Italy, 6, 15, 16, 18, 19, 21, 22, 27, 30–3, 36, 37, 42, 50, 59, 68, 70, 82, 112, 215–27  
 Jābir ibn Hayyān (*fl.* 8th–9th cent. AD), 166, 168, 169n, 170  
 Jacob, J. R., 147, 152, 153, 243  
 Jacob, M. C., 147, 243  
 Jacquier, Francisque (1711–1788), 223  
 James I, King of England (1566–1625), 115, 144  
 Jamnitzer, Wentzel (1508–1585), 84n  
 Jansen, Zacharias (1588–c. 1631), 63n  
 Jardine, N., 7n  
 Jena, 19  
 Jesuits, 67, 216, 220, 223  
 John-Paul II, Pope, 9

Cambridge University Press

978-0-521-62754-2 - Renaissance and Revolution: Humanists, Scholars, Craftsmen and Natural

Philosophers in Early Modern Europe

Edited by J. V. Field and Frank A. J. L. James

Index

[More information](#)

282

## Index

Johnston, S., 121n  
 Jorden, Edward (1569–1632), 171  
*Journal of the History of Ideas*, 248  
 Juntinge Press, 17  
 Jupiter, planet, 107, 108  
     satellites of, 13, 69, 70, 99, 106, 240  
 Jurina, K., 23n  
 justice, 37  
 Juvenis, Martinus, 17

Kalthof, Caspar (*f.* 1626–1664), 122  
 Kaplan, Barbara, 153n  
 Keill, John (1671–1721), 216  
 Kemp, M. J., 90n, 93n, 95n, 113n  
 Kepler, Johannes (1571–1630), 70  
     astronomy, 46, 81n, 94, 105, 133, 135n  
     historiography, 4, 7, 8, 242  
     mathematics, 81n  
     optics, 73, 104  
 kidney, 57, 58  
 kinematics, 135–7, 139, 140, 143  
 Koestler, Arthur, 242, 246  
 Koopman, Elizabeth (*f.* 1663), 109n  
 Kopal, Zdeněk, 111n  
 Koyré, Alexandre, 46, 193, 197n, 243, 248  
 Kraus, Paul, 166n, 169n  
 Kristeller, P. O., 15  
 Kubbinga, H. H., 190n  
 Kubrick, Stanley, 2n  
 Kuhn, 248  
 Kuhn, Thomas S., 1n, 9n, 12, 240  
 Kuijlen, J., 54n  
 Kulischer, Josef, 71n

laboratory, 182, 183, 185, 232  
 lacteals, 50, 240  
 La Hire, Philippe de (1640–1718), 69, 139, 140, 142, 145  
 Laird, W. R., 134n, 138  
 Lambertini, Marcello (d. 1676), 230  
 Lambertini, Prospero, *see* Benedict XIV  
 Lancaster, A., 244  
 Lange, Johann (1485–1565), 16n  
 Langren, Michael Florent van (*c.* 1600–1675), 68  
 Lapidge, Michael, 169n  
 lathe, 102, 103  
 Latin  
     language, 33  
     translations, 16–20, 23, 26  
 latitude, 69, 207  
 Latronico, Nicola, 31n, 33n  
 Lavanha, João Baptista (*c.* 1550–1624), 69  
 Lavin, M. A., 76n, 78n  
 Lavoisier, Antoine-Laurent (1743–1794), 239, 240, 245

laws, 213  
 laymen, 40  
 lead, black, 50  
 Leeuwenhoek, Antoni van (1632–1723), 50, 52, 56  
 Leeuwenhorst botanical garden, 55  
 Legge, George (1648–1691), 126, 127  
 Leibniz, Gottfried Wilhelm (1646–1716), 135, 136, 144, 204n, 205, 209, 217, 220, 245  
 Leiden, 67  
     botanical garden, 54  
     University of, 52–4, 56  
         *Theatrum anatomicum*, 55  
 Leipzig, 16, 220  
 Leites, Edmund, 150n  
 Lelli, Ercole (1702–1766), 231  
 Lemery, Nicolas (1645–1715), 176  
 lenses, 52, 102, 103, 109  
 Leonardo da Vinci (1452–1519), 29, 82, 93, 248  
 Leonardo of Pisa (*c.* 1170–1250), 73  
 Leoncino, Niccolò (1428–1524), 15, 19, 21, 22, 24, 25  
 Leopold I, Emperor (1640–1705), 70, 230, 233  
 Lercari, Cardinal, 235, 236  
 Le Seur, Thomas, 223  
 Leurechon, Jean (*c.* 1591–1670), 63n  
 Levin, Harry, 36n  
 Levine, Joseph M., 47, 48n  
 Leyden jar, 202  
 Lianori, 22n  
 Libri, Guglielmo (1803–1869), 248  
 light, 194, 197, 199, 200, 217  
     refraction, 215  
     wave theory of, 204  
 Linacre, Thomas (*c.* 1460–1524), 20  
 Lindberg, David C., 1n, 7, 73n, 249  
 Lindeboom, G. A., 51n, 53n, 60n  
 linear perspective, *see* perspective  
 Linz, 70  
 Lister, Martin (*c.* 1638–1712), 50  
 literature, 15, 22  
 liver, 53  
 Lloyd, G. E. R., 1n, 49n  
 Locke, John (1632–1704), 222  
 Loenen, 55  
 logic, 30  
 Löhneyss, Georg Englehardt von (1522–*c.* 1625), 63n  
 London, 60, 181, 219, 220  
     City of, 118  
     Masonic Lodge, 223  
     Tower of, 118, 119, 122, 128, 129  
 longitude, 69, 70, 124, 130  
     *see also* England

Cambridge University Press

978-0-521-62754-2 - Renaissance and Revolution: Humanists, Scholars, Craftsmen and Natural

Philosophers in Early Modern Europe

Edited by J. V. Field and Frank A. J. L. James

Index

[More information](#)

## Index

283

Lonie, Iain M., 48n  
 Louis XIV, King of France (1638–1715), 59  
 louse, 56  
 Lovejoy, Arthur, 241, 248  
 Lull, Ramon (*c.* 1255–1315), 33  
 luminosity, 168  
 Lunardi, R., 94n  
 Luther, Martin (1483–1546), 113  
 Lux, David, 48, 59, 68n  
 Luyendijk-Elshout, Antonie M., 53n, 58n  
 lymph system, 50, 53  
 Lyon, 67

McAdoo, H. R., 150n  
 McConnell, Anita, 230n  
 MacGregor, Arthur, 122n  
 McGuire, J. E., 193, 194n  
 McMullin, Ernan, 7  
 McPike, Eugene Fairfield, 97n  
 Mach, Ernst (1838–1916), 4, 136, 137  
 machine books, 112  
 machines, 140, 142, 144  
     the five simple, 135  
     theory of, 135, 137, 145  
 macrocosm, 31  
 Maddison, R. E. W., 148n  
 Madrid, 33  
     Academy of Mathematics, 69  
     Imperial College, 67  
 Magalotti, Lorenzo (1637–1712), 148  
 Magdalen Hall, 60  
 magic, 8, 183, 247  
 Magirus, Johannes, 139n  
 magistral syrup, 37  
 magnetic declination, 69  
 magnetism, 50, 199, 202  
     iron, 201  
 magnets, 144  
 Magnitsky, Leonty Filippovich (1669–1739), 67  
 Majocchi, D., 229n  
 Malpighi, Marcello (1628–1694), 59, 230  
 man, primitive, 36  
 Manardi, Giovanni (1462–1536), 18, 19, 22  
 Mandeville, Sir John (d. 1372), 56  
 Manilius, Marcus (*fl* 1st cent. AD), *see*  
     Sherburne, Edward  
 Mantegna, Andrea (*c.* 1430–1506), 80n  
 Mantua, 68  
 manuscripts, 21, 22, 25, 82, 186, 232, 248  
 maps, 35, 69, 70  
 Marat, Jean Paul (1744–1793), 246  
 Marburg, 19  
 Marci, Marcus (1595–1667), 245  
 Mariotte, Edme (d. 1684), 206, 217, 219, 222  
 Marquet, Yves, 169n

Mars, planet, 81n, 94, 106, 107, 189n  
 Marshall, Charles (1637–1696), 181n  
 marshes, 67–9  
 Marsigli, Luigi Ferdinando (1658–1730), 70,  
     230, 233–7  
 Martines, Lauro, 36n  
 Martins, Roberto de Andrade, 8, 12  
 Marx, Friedrich, 16n  
 Marx, Karl (1818–1883), 246  
 Mary II, Queen of England (1662–1694), 155n  
 Masaccio, Tommaso di Giovanni, called  
     (*c.* 1401–*c.* 1429), 94n  
 Mason, Stephen, 246  
 Massing, A., 90n  
 mathematical sciences, 117–31  
 mathematicians, 117  
 mathematics, 10, 11, 20, 24ff, 53, 66–71, 73–95,  
     117, 131, 134, 203, 209, 233, 242, 247  
     calculations, 66n  
     cubic equations, 247  
     history of, 11  
     instruments, 121, 141  
     medieval, 74  
     mixed, 134, 135, 138  
     practical, 74, 83, 91, 93, 94, 117, 120–2, 130,  
         131, 142  
     proof, 85, 92  
 mathematization of nature, *see* nature  
 Matisse, Henri (1864–1954), 245  
 matter, subtle, 196–9, 203  
     *see also* aether  
 Matthioli, Pietro Andrea (1500–1577), 18, 25  
 Maurice, Prince of Nassau (1567–1625), 69  
 Maurolico, Francesco (1494–1575), 26, 104  
 Maximilian of Burgundy (1514–1558/9), 17n  
 mayfly, 58, 60  
 mechanical arts, 44, 71  
 mechanical philosophy, 9, 12, 52, 53, 143, 144,  
     147, 161–72, 193–202, 203  
 mechanics, 4, 12, 53, 133–45, 195, 204–7, 244,  
     245, 247  
     *see also*, mechanical arts  
 mechanism, 47  
 medical community, 65  
 medical practice, 72, 183  
 Medici, Cosimo I dei, Grand Duke of Tuscany  
     (1519–1574), 70  
 Medici, Cosimo II dei, Grand Duke of  
     Tuscany (1590–1621), 135n  
 Medici, Cosimo III dei, Grand Duke of  
     Tuscany (1642–1723), 52, 71  
 Medici Library, 21  
 medicine, 45–61, 65, 66, 70n  
     historians of, 182  
     history of, 10, 11, 49

Cambridge University Press

978-0-521-62754-2 - Renaissance and Revolution: Humanists, Scholars, Craftsmen and Natural

Philosophers in Early Modern Europe

Edited by J. V. Field and Frank A. J. L. James

Index

[More information](#)

284

## Index

- medicines, proprietary, 182, 183  
 Mediterranean, 70  
 Mendelson, Sarah, 149, 150n  
 Menghi, Girolamo, 40  
 Mercuriale, Girolamo (1530–1606), 17, 18, 27  
 Mercurio, Scipione, 40  
 Mercury  
   god, 124  
   planet, 37, 53, 105  
   phases of, 98  
 Mersenne, Marin (1588–1648), 135  
 Merton, Robert K., 159n, 243, 246, 248  
 Merton College, 136  
 Messina, 37, 38  
 metallurgy, 71  
 metals, 166, 170  
 meteorology, 48  
 methodology, scientific, 208–13  
   restrictive, 210, 213  
 Metzger, Hélène, 243, 248  
 Meursius, Johannes (1613–c. 1654), 55  
 Meyerson, Emile, 248  
 Michelangelo Buonarroti (1475–1564), 82, 112  
 Micheli, Pier'Antonio (1679–1737), 71  
 Michelini, Famiano (1604–1665), 68  
 microcosm, 31, 41  
 microscopes, 44, 52, 53, 64, 104, 230, 232, 241  
   lenses, 52  
 midwives, 56  
 Mignard, F., 207n  
 Milan, 33, 67, 70  
 Milburne, William (1599–1640), 126  
 Miles, Henry (1698–1763), 149–51, 155  
 military engineering, 66, 67, 71, 72, 120  
 mineralogy, 48  
 minerals, 50, 56  
 mirror industry, 71  
 Moivre, Abraham de (1667–1754), 204n  
 Molière (Jean-Baptiste Poquelin, 1622–1673), 200  
 Molyneux, William (1656–1698), 97n  
 Monastir, 33  
 money, 39, 53, 54, 58, 59, 182  
 monocotyledons, 59  
 Montague, M. F. Ashley, 45, 60  
 Montaigne, Michel de (1533–1592), 29  
 Montanari, Geminiano (1653–1687), 68, 70, 215, 230  
 Monte, Guido Ubaldo del (1545–1607), 142, 145  
 Montfert, Jean de, 124  
 Monti, Filippo Maria, 232  
 Montucla, Jean Etienne (1725–1799), 220  
 Moon, 69, 99, 105, 107, 109–12, 115  
   eclipse of, 70  
   phases of, 110  
 Moore, Jonas (1617–1679), 122–4, 126–30  
 Moore, Jonas (c. 1650–1682), 127  
 More, Thomas (1478–1535), 36  
 Morelli, E., 229n  
 Moretti, Tomaso, 127n  
 Morgagni, Giambattista (1682–1771), 222  
 Morison, Robert (1620–1683), 60  
 Moschini, Giannantonio (1773–1840), 219n  
 Mosse, G. L., 150n  
 motion  
   perpetual, 143–5  
   planetary, *see* planets, motion  
   science of, *see* kinematics  
 moxibustion, 51  
 Mudry, Philippe, 17n  
 mules, 35  
 Munting, Abraham van (1626–1683), 50  
 Munting, Albertus van, 50  
 Muratori, Ludovico Antonio (1672–1750), 222  
 muscles, 52, 197  
 museums, 232  
   *see also* cabinets of curiosities  
 music, 30, 58, 93–5, 138  
 musicians, 41  
 Muscovy Company, 69  
 Musschenbroek, Petrus van (1691–1761), 232  
 Mydorge, Claude (1585–1647), 124  
 Nagel, Alexander, 113n  
 Napier, John (1550–1617)  
   rods, 126  
 Naples, 33, 37  
 natural history, 9–11, 45–61  
 naturalism, 113  
 natural philosophy  
   Arabic, 166, 167  
   instruments, 141  
 natural theology, 56  
 nature, 30, 50  
   laws of, 37, 201  
   mathematization of, 10, 11, 46–9  
 Nauert, C. G., 16n  
 navigation, 35, 64n, 66, 69–72, 126, 247  
 Navy Board, 120, 128  
 Nazari, Francesco (c. 1634–1714), 215  
 Needham, Joseph, 247  
 Neoplatonism, *see* Platonism  
 nerves, 197  
 Netherlands, 28, 45–61, 69, 71, 174, 182, 234, 235  
   colonies, 50, 51, 234, 236  
   Spanish, 67, 68  
   networks, 53, 58

Cambridge University Press

978-0-521-62754-2 - Renaissance and Revolution: Humanists, Scholars, Craftsmen and Natural

Philosophers in Early Modern Europe

Edited by J. V. Field and Frank A. J. L. James

Index

[More information](#)

## Index

285

- Newcomen, Thomas (1663–1729), 71n  
 New England, 50  
 Newton, Henry, 216n  
 Newton, Isaac (1642–1727), 2, 3, 6, 12, 46, 69, 95, 127, 135–7, 139, 144, 145, 157, 173–91, 193–202, 203–13, 215–27, 229, 232–4, 241–3, 245, 246  
     alchemical manuscripts, 177, 180  
     *experimentum crucis*, 219, 222  
     knowledge of French, 176–8  
     *La Lumière*, 179  
     library of, 173–6, 189  
         dog-eared pages, 176  
     manuscripts, 197, 198  
     *Opticks*, 12, 190, 193–202, 204, 215–27, 241  
         Queries, 196–8, 200, 201  
     *Principia*, 5, 8, 61, 194, 195, 198–200, 203, 204  
         General Scholium, 196, 201  
         *Regulae philosophandi*, 211, 212  
         System of the World, 211  
 Newton, John (*fl.* 1669), 128n  
 Newton, Thomas, 182  
 Niccolò da Reggio (1st half 14th cent.), 20, 21  
 Nicomachus of Gerasa (*fl.* AD 100), 22n  
 Niebyl, Peter H., 50n  
 Noceti, Carlo, 220  
 Noord-wijkerhout, 55  
 Nostradamus, Michael (1503–1566), 63n  
 North, Roger, 157  
 North America, 66  
 Norton, Robert (*fl.* 1590–1635), 121  
 Nuck, Antonius (*c.* 1650–1692), 53  
 Nunez, Pedro (1502–1578), 69  
 Nutton, Christine, 18n  
 Nutton, Vivian, 2, 4, 10, 11, 48n  
  
 Oaths, 153–7  
     abuse of, 154  
     Engagement, 152  
     Supremacy, 156  
 observation, 35, 58, 99, 105, 106, 110, 111, 116, 122, 240  
     medical, 34  
 obstetrics, 232  
 occult qualities, 162  
 Octavian, Emperor of Rome (63 BC–AD 14), 41  
 Oestreich, G., 15n  
 Ohio, river, 66  
 oil, 170  
     oil of hypericum, 38  
 Oldenburg, Henry (*c.* 1618–1677), 98n, 241  
 Oldenburger-Ebbers, C. S., 54n  
 Onderiz, 69  
 O’Neil, Mary, 40n  
  
 ontology, 49  
 opium, 200  
 optics, 73, 91, 94, 102, 104, 205, 215, 241  
     experimental, 216  
         Huygens’s contributions, 205  
 Orange, Prince of, 54  
 Ordnance Office, 10, 11, 117–31  
 Oribasius (4th cent. AD), 20, 21, 23  
 Orleans, Duke of, 122  
 Oud-Teylinghe botanical garden, 55  
 Oughtred, William (1575–1660), 121, 124, 131  
 Ovid, Publius Ovidius Naso (43 BC–AD 17), 36  
 oxen, 35  
 Oxford, 60, 205, 216  
  
 Pacioli, Luca (*c.* 1445–1517), 81n, 82  
 Padua, 68, 217, 227, 231  
 Pagel, Walter, 8, 47  
 painters, 110  
     craft, 112  
     paintings, 56, 73–95, 232  
 Palermo, 33  
 Panofsky, Erwin, 2n  
 Pan, 124  
     hunt of, 30  
 Papal States, 220, 231  
 Papin, Denis (1647–*c.* 1712), 71  
 Pappus of Alexandria (*fl.* AD 300–350), 25, 81, 134  
 Paracelsianism, 27, 31, 43, 176, 183, 186, 190n  
 Paracelsus, Theophrastus Philippus Aureolus von Hohenheim (*c.* 1493–1541), 4, 29, 32, 175  
 paradigm shift, 240  
 Pardies, Ignace-Gaston (1636–1673), 139, 145, 245  
 Paré, Ambroise (*c.* 1510–1590), 31  
 Paris, 19, 23, 24, 27, 53, 60, 68, 206  
     *Jardin des Plantes*, 54, 59  
     Observatory, 70  
 Park, Katherine, 48n  
 parotid gland, 54  
 Pascal, Blaise (1632–1662), 68  
 Pascal, Etienne (1588–1651), 69  
 Pastor, L. von, 223n, 229n  
 Patey, D. L., 159n  
 patronage, 41, 52, 67–71, 83, 99, 122, 124, 126, 127, 229, 231, 232  
 Paul of Aegina (*fl.* AD 640), 19, 20, 23  
 Pavia, 67  
 Pearce, E. H., 130n  
 peasantry, 29, 32, 43, 44  
 Pecham, John (*c.* 1230–1292), 73

Cambridge University Press

978-0-521-62754-2 - Renaissance and Revolution: Humanists, Scholars, Craftsmen and Natural

Philosophers in Early Modern Europe

Edited by J. V. Field and Frank A. J. L. James

Index

[More information](#)

286

## Index

- Peiresc, Nicolas Claude Fabri de (1580–1637), 70  
 Pellet, Thomas, 181  
 pendulum, 59, 126, 207  
     seconds, 206, 207  
 Pepper, Simon, 66n  
 Pepys, Samuel (1633–1703), 246  
 Pérez-Ramos, Antonio, 44n, 49n  
 perfume, 50  
*Peripatetics*, *see* Aristotle, Aristotelianism  
 Perkins, William, 150  
 Perrault, Claude (1613–1688), 59  
 Personne, *see* Roberval  
*perspectiva*, 73, 92, 93  
 perspective, 73, 76, 79, 82–4, 90, 92–5, 124, 175  
     ideal position of eye, 80  
     mathematical correctness, 78, 80, 90, 91  
     mathematical foundations of, 91  
 perturbation, 211  
 Peters, F. E., 136n  
 Peter the Great (1672–1725), 56  
 Pett, Peter (1610–c. 1670), 153  
 Petty, William (1623–1687), 157  
 Petzold, Ulrich, 2, 12  
 pharmacology, 64n, 65, 66, 70n, 71, 72  
 pharmacy, 184  
 Philalethes, 189  
 Philaretus, 150  
 Philip II, King of Spain (1527–1598), 33, 69  
 Philip IV, King of Spain (1605–1665), 67  
 philology, 18, 19, 24  
 philosophy, 22  
 phlogiston, 144, 168  
 physicians, 31, 33–6, 58, 166, 230, 232  
     occult, 186  
 physico-theology, 56  
 physics, 138, 139, 141, 145  
     modern, 46, 59  
*physiologia*, 134  
 physiology, 24, 48, 50, 65, 198, 199, 201  
 Picard, Jean (1620–1682), 68–70  
 Piero della Francesca (c. 1412–1492), 11, 73–95  
     *Baptism of Christ*, 75, 76, 78, 90  
     *Flagellation of Christ*, 76–8, 84, 90  
     *Resurrection of Christ*, 78, 79, 85  
     *The Story of the True Cross*, 85, 86, 90  
     treatises by, 80–93  
         *De prospectiva pingendi*, 82–93  
 Pilkington, Thomas, 181  
 Pirenne, M. H., 78n  
 Pisa, 70  
 Place, Francis (1647–1728), 129  
 planets, 99, 206, 208, 212  
     motion of, 209, 211  
 plants, 48, 56, 58, 165, 167  
     milk in, 50  
 Platonism, 8, 9, 46, 248  
     Neo-, 8, 9, 242, 247, 248  
 Pliny, Elder (c. AD 23–79), 15, 16, 22, 25, 48, 49  
 Plot, Robert (1640–1696), 60  
 Plumb, Jack H., 47, 48n  
 plumbus marinus, 50  
 pneuma, 169, 170  
 poetry, 56, 179, 190n  
 poets, 41  
 Pöhlmann, Olga, 51n  
 Polanyi, Michael, 46n  
 Politian, Angelo Poliziano (1454–1494), 22n  
 pollution, 42  
 Pontphaeus, J. D., 215  
 Pontine marshes, 68  
 Pope-Hennessy, J., 78n  
 porcelain, Chinese, 51  
 porpoise, 60  
 Porta, Giambattista della (1535–1615), 65n, 215  
 Portugal, 67, 69  
 positivism, 45, 46, 49  
 Posthumus, N. W., 52n  
 Po valley, 68  
 Povey, Thomas (*fl.* 1633–1685), 128  
 powers, 197, 201, 202  
 practical tradition in mathematics, 91, 93, 94  
 preformation theory, 200  
 Presbyterianism, 156  
 Prest, John, 55n  
 Priestley, Joseph (1733–1804), 220, 245  
 priests, 40  
 printing, 23–5, 43, 110–13, 116, 246  
 prism, 217, 218, 222  
*Processus corpus*, 180, 186ff, 191n  
 progressivism, 45  
 proprietary medicines, 180–3  
 Protestantism, 6, 113  
 Pryme, Abraham de la (1672–1704), 246  
 Pseudo-Aristotle, 134, 136  
 Pseudo-Galen, 22n  
 Pseudo-Hippocrates, 165  
 Ptolemy, Claudius, of Alexandria (*fl.* AD 129–41), 22n, 69, 241, 242  
 publishers, 22  
 Pullas, Frau, 55  
 pumps, 68, 122  
 purgation, 36, 37–44  
 purges, 35, 39  
 purification, 40, 42  
 Puritanism, 159n  
 pyrites, 50  
 Pythagoras, 241

Cambridge University Press

978-0-521-62754-2 - Renaissance and Revolution: Humanists, Scholars, Craftsmen and Natural

Philosophers in Early Modern Europe

Edited by J. V. Field and Frank A. J. L. James

Index

[More information](#)

## Index

287

quacks, 40, 58  
*Quadrivium*, 93, 95  
 Quakers, 154, 156  
 quality, occult, 200, 202  
 quantification, 190, 210  
 quantum mechanics, 46  
 quarrying stone, 128

Rabelais, François (*c.* 1494–*c.* 1553), 23, 63n  
 rain, 50  
 rainbow, 223  
 Ramelli, Agostino (*c.* 1531–1590), 112  
 Ramón, Martin, 33n  
 Ramus, Petrus (Pierre de la Ramée, 1515–1572), 246  
 rationalism, 46  
 Rattansi, P. M., 47  
 Raven, Charles, 45, 46, 47, 244, 248  
 Ray, John (1627–1705), 59  
 al-Rāzī (*c.* AD 854–*c.* AD 935), 20n, 166  
 Redondi, P., 9n  
 Reeds, Karen, 24  
 Reformation, 12, 113, 246  
   Counter-, 37, 39, 40  
 Reingold, Nathan, 245  
 relativity theory, 46  
 religion, 7, 113, 149–53, 247  
 Renaissance, 1, 73, 74, 94, 95, 167, 191, 246  
   art, 73–95, 112, 113  
 Renazzi, Filippo Maria (1742–1808), 223n  
 Renieri, Vincenzo, 99n  
 Reno, river, 68  
 republicanism, 152  
 respiration, 52  
 Restoration, 150, 153  
 Reusner, Nicholas (1545–1602), 16n  
 Révérend, Dominique (1648–1734), 175n  
 revolution, 1, 239  
 Rex, F., 169n  
 Reynolds, John (*fl.* 1582–1636), 121  
 Rhazes, *see* al-Rāzī  
 Rhea, *see* Schyrlaeus de Rhei  
 Riccati, Jacopo (1676–1754), 219n  
 Riccioli, Giovanni Battista (1598–1671), 98n,  
   215  
 Rice, Thomas (*fl.* 1640–1660), 121  
 Rich, Mary (1625–1678), 149  
 Richer, Jean (1630–1696), 206  
 Richter, Friedrich, 220  
 Riddle, John, 24n  
 Rigatelli, L. Toti, 74n  
 Rimini, 68  
 Risner, Friedrich (d. *c.* 1580), 104n  
 Rizzetti, Giovanni (1675–1751), 217, 219–23,  
   227

Roberval, Gilles Personne de (1602–1675), 145n  
 Rocchi, Enrico, 67n  
 Roe, Shirley, 47n  
 Roemer, Ole (1644–1710), 68  
 Roget, Jacques, 47n  
 Roman Catholic Church, 39, 220, 222, 229  
   Index, 222, 223  
 Rome, 22, 26, 33, 215–17, 223, 230, 232  
   Emperors, 36  
   Musei Capitolini, 232  
   University of, 223  
 Roonhuis, Hermann, 51n  
 Rose, Paul Lawrence, 10, 26, 134n  
 Rosen, Edward, 248  
 Rosen, George, 51n  
 Rossi, Paolo, 4, 30n  
 Rostino, Ludovico, 36n  
 Rostino, Pietro, 36n  
 Rotterdam, 180, 182  
 Royal Astronomical Society, 13  
 Royal Greenwich Observatory, 129, 130  
 Royal Mint, 118, 121, 127, 129, 173  
 Royal Navy, 118, 130  
 Royal Society, 49–51, 53, 59, 60, 98n, 117, 118,  
   127–31, 141, 153–6, 159, 199, 204, 205,  
   216, 217, 219, 220, 234, 240  
   *Philosophical Transactions*, 58, 215  
 Rubicon, 5  
 Rudd, Thomas (*c.* 1584–1656), 121  
 Ruestow, Edward G., 60n  
 Ruffo, Cardinal, 236  
 Rufus of Ephesus (1st cent. AD), 20  
 Rupp, Jan C. C., 56n  
 Ruska, J., 165n  
 Ruscelli, Girolamo (d. *c.* 1565), 32  
 Russia, 67  
   Academy for Nature and Art, 54  
 Ruysch, Frederik (1638–1731), 56–8, 72  
 rye bread, 52n

Saccardino, Costantino (d. 1622), 42, 43  
 sacrilege, 151  
 sailors, 58  
 St Petersburg, 56  
   Academy of Sciences, 54n  
 sal ammoniac, 165  
 saliva, 54  
 Salmon, William (1644–1713), 173  
 salt, 41  
 Sambursky, Samuel, 137n, 169n  
 Sampson, Margaret, 159n  
 Sanderson, Robert (1587–1663), 150, 152, 153,  
   154n, 158  
 Sandwich, Earl of (1625–1672), 124

Cambridge University Press

978-0-521-62754-2 - Renaissance and Revolution: Humanists, Scholars, Craftsmen and Natural

Philosophers in Early Modern Europe

Edited by J. V. Field and Frank A. J. L. James

Index

[More information](#)

288

## Index

Sansepolcro, 79, 82  
 Santillana, Giorgio di, 242  
 Sargent, Rose-Mary, 147  
 Sarton, George, 45, 60, 243, 247, 248  
 Saturn, planet, 106, 107  
     C ring, 116  
 Scaliger, Joseph Justus (1540–1609), 19  
 Schaffer, Simon, 5n, 47n, 111, 147, 148n, 153, 243  
 Scheiner, Christoph (1573–1650), 104  
 Scheurleer, T. H. Lunsingh, 56n  
 Schmitt, Charles B., 5, 22n, 25, 242  
 Scholasticism, *see* Aristotle, Aristotelianism  
 schools, grammar, 22n  
 Schupbach, W., 55n  
 Schyrlaeus de Reita, Antonius Maria (1597–1660), 106, 107  
 science, 2, 4, 7, 13, 63–72, 136, 137  
     industrial, 70, 71  
     national, 243  
*scientia*, 4, 35, 92, 134  
*scientia media*, 134  
 scientific community, 63ff  
 scientific primitivism, 30  
 Scientific Revolution, 1–14, 45, 46, 74, 95, 133, 141, 193, 202, 210, 239–44, 246–8  
 scientist, 2, 7, 13, 47  
 sculpture, 231  
 secrets of nature, 32  
 sects, medical, 34, 35  
 seeds, 60  
 Sendivogius, Michael (1566–1636), 178n, 189  
 Settle, Thomas B., 74, 94n, 245  
 Severinus, Peter (c. 1542–1602), 29  
 Shanahan, Timothy, 147  
 Shapin, Steven, 2n, 47n, 104n, 111, 131, 147, 148n, 153  
 Shapiro, A. E., 174  
 Shapiro, Barbara, 159n  
 Sharrock, Robert (1630–1684), 159  
 sheep, 54, 58  
 shells, 56, 58  
 shepherds, 32  
 Sherard, William (1659–1728), 54  
 Sherborn, Charles Davies, 122n  
 Sherburne, Edward (1618–1702), 122, 124, 126, 127  
     *Sphere of Marcus Manilius*, 122, 124  
     niece, 126  
 Sherrington, Charles Scott (1857–1952), 45  
 shipbuilding, 121  
 ships, 245  
 shrubs, 48  
 Sicily, 32, 37  
 signatures, doctrine of, 31

simplicity, principle of, 212  
 Singer, Charles, 45, 247  
 Singkeler, Sebastian, 24n  
 Siraisi, Nancy, 15, 36n  
 Sirius, 105  
 Sirtori, Girolamo, 104  
 skin diseases, 18, 19  
 Sladus, Mathias, 53  
 Slare, Frederick (c. 1647–1727), 50  
 Slights, Camille, 150n  
 Sloan, Philip, 47n, 48, 49  
 Sloane, Sir Hans (1660–1753), 49, 60, 199n, 220  
 Smith, Dr, 50  
 Smith, Wesley D., 48n  
 snails, 161–3  
 Snel, Willibord (1580–1626), 69  
 social functionalism, 152, 153, 156, 157, 159  
 social history, 63  
 soldanella, 37  
 soldiers, 32, 58  
 Solerti, Angelo, 41n  
 Soppelsa, M. L., 219n  
 Soranus of Ephesus (*fl.* 2nd cent. AD), 20  
 Sorabji, Richard, 168n  
 Sorgfliet botanical garden, 54  
 Soter, J., 24  
 soul, 35  
 Southwell, Robert (1635–1702), 155n  
 Sowle, Andrew, 183n  
 space, pictorial, 76, 78  
 Spain, 33, 69  
 Sparen-Hout botanical gardens, 55  
 Spini, G., 227n  
 Spire, John, 182n  
 spirit  
     elastic, 193, 194  
     subtle, 193, 199  
     *see also* aether and matter, subtle  
 spolvero, 90  
 Sprat, Thomas (1635–1713), 247  
 springs, medicinal, 50  
 Spurr, John, 156n  
 Stahl, Georg Ernst (c. 1660–1734), 168  
 Stapleton, H. E., 166n  
 Starkey, George (1628–1665), 173, 183  
 stars, 98, 105  
 statics, 135, 145  
 Stearns, R. P., 50n  
 Stendhal (Henri Beyle, 1783–1842), 6  
 Steneck, N. H., 153n  
 Steno, Nicolaus (Niels Stenson, 1638–1686), 54  
 Stephenson, Nicholas (*fl.* 1674–1679), 126, 127, 130  
 Stevin, Simon (1548–1620), 64, 68, 69, 121

- Stillingfleet, Edward (1635–1699), 150n, 151, 155
- Stoics, 10, 37, 168–70, 172, 195
- stomach, 35
- stone, 167, 168, 175, 201
- stones, 58
- Strato of Lampsacus (d. c. 268 BC), 134n
- Stroup, Alice, 59n
- Stubbe, Henry, 153
- sudorifics, 38
- Sudduth, W. H., 168n
- Sudhoff, Karl Friedrich Jakob (1853–1938), 247
- Sun, 60, 64, 81n, 98, 104, 115, 206, 208, 212
- spots, 64, 99, 104, 107
- surgery, 30–4, 54, 65, 181
- plastic, 32
- surveying, 72, 120, 124
- Swammerdam, Jan (1637–1680), 51–4, 56, 58, 72, 244
- father of, 51, 52
- collection of insects, 52
- see also* cabinets of curiosities
- Sweden, 67, 121
- Sydenham, Thomas (1624–1689), 51
- Sylvius, Franciscus dele Boë (1614–1672), 59
- symmetries, 76, 81
- Symonds, J. A., 41n
- System of the World, 97
- Tacitus, Caius Cornelius (c. AD 55–120), 36
- Tangier, 123, 124
- Committee for, 128
- Mole, 128
- Tannery, Paul, 240, 247
- Targoni-Tozzetti, G., 71n
- taxes, 41, 42
- Taylor, Brook (1685–1731), 201
- Taylor, E. R. G., 121n
- Taylor, Jeremy (1613–1667), 150
- Taylor, John, 183n
- Taylor, W. G., 209n
- technology, 63–72, 131, 142
- Tega, W., 231n
- telescopes, 64, 97, 98, 99, 102, 105, 107, 109, 115, 116, 232, 241
- aperture, 103, 104
- stopping down, 98, 105, 106
- lenses, 102
- sights, 97
- tubes, 102, 103
- see also* astronomy and optics
- Temple, Sir William (1628–1699), 51
- Ten Rhijne, Willem (1647–1700), 50, 51
- Test Act, 155
- Thacker, Robert (*fl.* 1665–1687), 129
- Thackray, Arnold, 190n, 243
- theocracy, 39
- theology, 22
- Theon of Alexandria (*fl.* AD 350–400), 25, 84, 91
- Theophrastus (c. 371–c. 287 BC), 10, 20, 22n, 24, 25
- theories, 34
- therapeutics, 30, 35, 42
- thermometer, 64, 72
- Thévenot, Melchisédec, 53, 56, 59
- Thomas, Keith, 47, 48n, 151n
- thoracic duct, 52
- Thoren, Victor, 5
- Thorndike, Lynn, 49n, 247
- thunder, 50
- Ticonderoga, 66
- tides, 126
- Tillotson, John (1630–1694), 156
- tinplate industry, 71
- Todhunter, Isaac (1820–1884), 207
- Tomlinson, H. C., 117n
- tongue, 35
- Torre, Marcantonio della (1481–1511), 63n
- Torricelli, Evangelista (1608–1647), 99, 102, 144, 215n
- Tournefort, Joseph Pitton de (1656–1708), 54
- trachea, 53
- transmutation, *see* alchemy
- travellers, 58
- trees, 48
- Trevelyan, G. M., 244
- Turkey, 70
- Turnbull, H. W., 127n
- Tuscany, 68
- Grand Duke of, 99
- see also* Medici
- al-Tūsī (d. c. 1214), 241
- Tver, 67
- Tyson, Edward (c. 1650–1708), 50, 60, 61
- Uccello, Paolo (1397–1475), 90n
- unctuous substances, 164, 165, 167–71
- United States, 248
- universities, 27, 51, 59
- Urbach, Peter, 49n
- Urbino, 26
- Utopia, 36
- uterine tumour, 38
- vacuum, 242
- Valentine, Basil, 178n
- Valla, Giorgio (1447–1500), 21
- Van Deursen, A. T., 52n

Cambridge University Press

978-0-521-62754-2 - Renaissance and Revolution: Humanists, Scholars, Craftsmen and Natural

Philosophers in Early Modern Europe

Edited by J. V. Field and Frank A. J. L. James

Index

[More information](#)

290

## Index

- Van der Gucht, Michiel (1660–1725), 183n, 184  
 Van Helden, Albert, 4, 11, 232n  
 vanity, 56, 58  
 Van Leeuwen, Henry, 159n  
 Van Lieburg, J., 182n  
 Van Riedt, Johannes, 55  
 Varignon, Pierre (1654–1722), 140, 144n, 145, 204  
 Vasari, Giorgio (1511–1574), 80, 82  
*vas deferens*, 58  
 Vatican, 21  
   Library, 216  
 Vauxhall, 122  
 veins, 57  
   pulmonary, 53  
 Velde, J. van de (Jason Pratensis, 1486–1558), 17n  
 Venator, Balthasar, 27, 28n  
 Venice, 21, 32, 33, 68, 71, 102, 217  
 Venus, planet, 105  
   phases of, 98  
 veratrum, 37  
 Vermij, Rienk, 56n  
 vernacular, 25, 39, 43, 52, 81–3  
 Verne, Jules (1828–1905), 248  
 Verona, 39  
 Versailles, 68  
 Vesalius, Andreas (1514–1564), 19, 26, 61  
 Vianeo brothers, 32  
 Vienna, 233  
 Vijverhof botanical garden, 55  
 Villalpando, Juan Bautista (1552–1608), 63n  
 Vinta, Belisario, 135n  
 Virginia, 70  
 virtual witness, 99, 111  
 virtuosi, 43, 47, 48, 58, 60  
 Visser, R. P. W., 51n  
 visual imagination, 81  
 visual language, 99, 111–13  
 Vitruvius, Marcus V. Pollio, (*fl.* 40 BC), 131  
 Vives, Juan Luis (1492–1540), 63n  
 void, 206, 242  
 Voltaire, François-Marie Arouet de (1694–1778), 13, 223, 233  
 vomiting, 36, 38, 39  
 vortex theory of planetary motion, 203, 206, 208  
   interplanetary aether, 195  
 Voyager II, 13  
 Walder, Johann, 23n  
 Walker, D. P., 95  
 Wallace, Alfred Russel (1823–1913), 245  
 Wallace, William A., 134n, 138  
 Wallis, John (1616–1703), 124, 139, 145, 245  
 Wallis, P. J., 181n  
 Wallis, R. V., 181n  
 War, 117, 130  
   Austrian Succession, 222  
   English Civil, 126  
   Great Northern, 67  
   Second Dutch, 118  
   Spanish Succession, 67  
   Third Dutch, 118  
 Warmond, 55  
 Warner, Deborah Jean, 141, 142  
 water, 170  
 Waters, David, 247  
 wax, injection of, *see* anatomy, preparations  
 Webster, Charles, 8n, 30n, 47  
 Wechsel Press, 17, 24  
 Weigel, Valentin (1533–1588), 63n  
 Wells, John (*fl.* 1606–1635), 121  
 Westfall, Richard S., 2, 4, 10, 11, 14, 47, 137, 149, 157n, 173n, 175, 190, 194n, 195, 243, 246  
 Westman, Robert S., 1n, 7  
 wheat, 52n  
 Wharton, George (1617–1681), 122, 126, 127  
 Wharton, Polycarpus (*fl.* 1687–c. 1741), 126  
 Whewell, William (1794–1866), 13  
 Whiggism, 138  
 Whitehead, Alfred North (1861–1947), 46  
 Whiteside, D. T., 204n, 245  
 Whittaker, Ewen A., 112n  
 Whitteridge, G., 8n  
 Who, Dr, 239  
 Wiesel, Johannes, 102  
 Wijnands, D. O., 54n  
 Wilamowitz, U. von, 15n  
 William III, King of England (1650–1702), 155n  
 Willmoth, Frances, 10, 11, 247  
 Wilson, Catherine, 44n  
 Winde, William (*fl.* 1662–1722), 128  
 Wing, D. G., 180n  
 Winkler, Mary G., 4, 11  
 witch-hunts, 39  
 Witelo (c. 1230–c. 1275), 73, 104  
 Wittkower, R., 78  
 Wolf, C., 206n  
 wood, 167  
 Wood, Thomas, 150n  
 Woodbridge, 181  
 woollens, 71  
 Woolwich, 122  
 Worcester, Marquis of (1601–1667), 122  
 Wordsworth, Christopher (1807–1885), 152

Cambridge University Press

978-0-521-62754-2 - Renaissance and Revolution: Humanists, Scholars, Craftsmen and Natural Philosophers in Early Modern Europe

Edited by J. V. Field and Frank A. J. L. James

Index

[More information](#)

## Index

291

workshops, 111  
artists', 83  
manuals, 83, 93  
Wotton, William (1666–1727), 149, 240  
Wren, Christopher (1632–1723), 124  
  
Yarworth, *see* Yworth  
Yates, Frances, 15, 131  
Yeates, N. (*fl.* 1680), 123  
Yoder, J., 205n  
York, Duke of, later James II, King of England (1633–1701), 120, 124, 128  
Yworth, Theophrastus, 181, 182

Yworth, William (*c.* 1650/60–*c.* 1710), 2, 174, 179–91  
Academia Spagirica Nova, 182  
Collegium Chymicum, 180, 182  
origin of name, 181, 182  
  
Zambarelli, L., 230n  
Zanier, Giancarlo, 31n  
Zannini, G. L. Masetti, 230n  
Zanotto, Francesco (1692–1777), 222  
Zeuthen, H. G., 74n  
zoology, 47  
Zupo, Johannes Baptista, 98n  
Zwinger, Theodore (1533–1588), 27