

Index

- Abbasi, Shahid, 239
 Abbasid Caliphate, 81, 82, 87. *See also*
 Islam; Muslims
 Abu al-Fazl Allami, 97, 100
 Acheulean culture, 22
 Addiscombe, East India Company military
 seminary, 133
Adivasi, 30–31. *See also* forest-dwellers
advaita (non-dualism), 45, 55
 afforestation, 207, 210, 213, 229
 Afghanistan, 11, 16, 60, 64, 136, 213, 214.
 See also South Asia, defined
 immigration from, 83, 85, 88, 94, 96
 Mughal period, 94, 109, 110, 113
 Pakistan, relations, 163, 165, 168,
 172–73, 234
 Africa, 13–14, 19
 European colonialism, 70, 78, 91, 154
 immigration from, 22–23, 78–80, 91
 Indians in, 154
 trade with, 65, 80, 81, 89, 91, 113
 Agarwal, Anil, 203
 agate, 36, 39
 Agenda 21, 210, 224, 232. *See also* Rio
 Conference
 Agha Khan Foundation, 231
 Agni, 56–57
 Agra, 95, 106, 109, 110, 198
 agriculture, 24–25, 33, 45, 52. *See also* by
 crop; Green Revolution; sedentization;
 swidden
 Ahmad, Fakhruddin, 243–44
 Ahmadnagar, 88
 Ahmed, Shahabuddin, 221, 239
 Ahmedabad, 152
 AIDS, 75
 air pollution. *See* pollution
 Akbar, Emperor, 88, 93, 96–102, 126
 Alang-Sosiya, 251
 alchemy, 97
 alcohol, 105
 Alexander of Macedonia, 64, 81
 Ali, Salim, 147, 181
 Allahabad, 110
 aloe trees, 58
 al-Qaeda, 234, 237
 Ambedkar, B.R., 155, 157
 amber, 36
 America, 70, 130, 207. *See also* Columbian
 Exchange; United States
 trade with, 78, 91–92, 102, 103, 114, 116
 Amritsar, 157, 159, 205. *See also* Punjab
 Andaman Islands, 24
 Anglicization, 129, 136, 137, 154, 156, 166
 Anglo-Indians, 136, 142
 animals. *See by species*
 antelope, 38, 51, 86, 103, 119
 Anthropocene, 19, 116
anupa (marshes), 52
 apples, 126
 aquifers, 1, 19, 118, 150, 151, 189, 191,
 240, 242–43. *See also* arsenic
 Arabia, 23, 78–82. *See also* Islam; Muslims
 trade with, 39, 40, 81, 86, 89
 Arabian Sea, 45, 235
 Arabic, 20, 88, 95, 97, 100, 101, 125,
 213
 Arakan, 109. *See also* Burma
aranya (forestland), 52
Aranyaka (forest books), 55
 Aravalli Mountains, 17, 83
 Aravidu dynasty, 90. *See also* Vijayanagar
 architecture, 97, 103, 105–7, 158, 192–93
 Arcot, 123
 arsenic, 16, 242–43. *See also* aquifers
artha (political and material power), 68–69.
 See also shastras
 Arya. *See* Vedic culture
Aryavarta (Noble People's Land), 51
 asbestos, 251
 Ashoka, Emperor, 50, 64–66, 75
ashram (sylvan hermitage or retreat), 55,
 57, 67
ashrama (stages of life), 54

284 Index

- Asian Development Bank, 213, 218, 239, 241, 242, 255
 ass, wild, 208
 Assam, 109, 129, 147, 161, 181. *See also* India, Republic of
 Assam Railway Company, 133. *See also* railways
 astronomy, 67, 79, 119
 Atlantic Ocean, 91
Atman (self), 55
 aubergine, 228
 Aurangzeb 'Alamgir, Emperor, 102, 107–13
 Australia, 13, 24, 201
 automobiles, 208, 243
 Awadh, 117, 119, 134
 Awami League, 194, 217, 220, 221, 240, 244–47, 254
 axes, 85
Ayurveda (health knowledge), 67–68
 Azad Kashmir, 165–66, 173, 235. *See also* Kashmir; Pakistan
 'Azam, Prince, 109, 112
- Babur, Emperor, 88, 94–96
 Baghdad, 81, 87. *See also* Iraq
 Baglihar Dam, 186. *See also* India, Republic of, dams
 Bahadur Shah I, Emperor, 113
 Bahadur Shah II, Emperor, 134
 Bahmani sultans, 88
 Bahrain, 39. *See also* Persian Gulf
 Balochistan, 16, 41, 64, 95, 165, 173, 213, 235, 237. *See also* Pakistan
 Baltistan, 173. *See also* Pakistan
 bamboo, 67, 72, 80
 banana trees, 95
 Bangla language, 196, 217, 219, 246. *See also* Bangladesh; Bengal
 Bangladesh, 3, 85, 125, 193, 216–21, 239–55. *See also* Bengal
 Army, 219–20, 243–44
 arsenic, 16, 242–43
 climate change, 223, 244, 246, 253–55
 coal, 246, 254
 Constitution, 217, 218, 245
 cyclones, 171, 217, 220, 221, 244
 deforestation, 219, 241, 242, 244, 246
 electricity, 246
 environmental legislation, 195, 217, 219, 220, 239–44, 252
 floods, 217, 218, 220, 221, 244
 forest-dwellers, 219, 239
 forestry, 201, 209, 239–40
 gender, 242–43, 246–47
 genetically modified crops, 228
 geography, 15, 168
 Green Revolution, 240
 hazardous waste, 250–52
 independence war, 190, 194, 195, 196, 199
 India, relations, 168, 220, 246
 international agreements, 209–10, 222, 246, 253
 Islam, 83, 242, 245
 joint forest management, 209, 239
 monsoons, 20
 natural gas, 240, 243, 246
 NGOs, 218, 239, 244
 nuclear power, 246, 254
 pesticides, 240
 petroleum, 243, 246
 pollution, 245, 246
 poverty, 9, 245, 246–47
 Rohingyas, 246
 ship-breaking, 250–52
 social forestry, 201
 Stockholm Conference, 195
 Supreme Court, 204, 221, 243
 urbanization, 220, 246, 249–50
 water, 168, 242–43, 245
 wildlife sanctuaries, 240, 246
 Bangladesh Environmental Lawyers Association, 221. *See also* Bangladesh, Supreme Court
 Bangladesh National Party, 219, 220, 221, 239–44, 245
 barley, 15, 33, 39, 62
 bauxite, 229
 Bay of Bengal, 16, 20, 21, 217, 246
 bears, 57, 58
 Beas River, 181, 183, 184, 186
 beer, 33
begar (unpaid labor), 146, 160
 Benares, 119, 122, 151
 Bengal, 21, 106, 124, 132, 136, 180. *See also* Bangladesh; India, Republic of; Pakistan, East
 Army. *See* East India Company, armies
 Bay of, 16, 20, 21, 217, 246
 British colonial, 120–23, 124, 132
 canals, 85, 147–50, 151
 cyclones, 21, 61, 171
 famine, 115, 153, 161
 geography, 15, 16, 61, 126–27, 171
 history, 64, 85, 88, 91, 95, 108, 111, 115, 117
 monsoons, 11, 20, 171
 partition (1905–11), 157–58

Index

285

- partition (1947), 163, 165, 168, 170–71, 176
- partition (1971), 194
- West, 199, 208
- Bentinck, William, 129
- Berar, 88
- Beringia, 22
- bewar*. *See* swidden
- Bhagavad Gita*, 56. *See also* Mahabharata
- Bhagirathi River, 201–2
- Bhakra-Nangal Dam, 184–85. *See also* dams, India, Republic of
- bhakti* (devotionalism), 56, 68, 83
- Bharat, 56–57
- Bharatiya Janata Party, 47–48, 226–28, 229–30, 254
- Bharatpur, 147, 198
- Bhopal, 205
- Bhutan, 136, 163, 176
- Bhutto, Benazir, 212, 214–15, 230–32, 236
- Bhutto, Zulfikar Ali, 210–12, 215
- Bidar, 88
- Bihar, 59, 108, 121–22, 134, 148, 180. *See also* Magadha; India, Republic of
- Bijapur, 88, 91
- bin-Laden, Osama, 237
- biodiversity, 20, 201, 202, 227
 - conservation, 27, 73, 202, 207, 210, 227, 234, 241, 242, 245
 - international agreements, 224, 230, 239
- biofuel, 254
- biological sciences, 2, 79, 93
- biomass fuel, 207. *See also* woodfuel
- biopiracy, 227
- bioprospecting, 227
- biosphere, 203, 224
- birds, 27, 46, 57, 58, 68, 69, 72, 147. *See also* by species
 - India, Republic of, 105, 147
 - Mughal period, 95, 97, 103
- Bishnoi, 4, 119. *See also* Hinduism
- blackbuck, 51, 119. *See also* antelope
- blue pine, 143, 157
- Bodhi* tree, 59. *See also* Buddhism
- Bolan Pass, 16, 33, 83
- Bombay, 112, 114, 120, 141, 143, 151, 152, 156, 157. *See also* Mumbai
- Army, 133. *See also* East India Company, armies
- Botanical Garden, 131
- Forest Department, 123, 132, 143–47
- Public Works Department, 132
- railways, 132
- shipbuilding, 122, 128, 130
- Bombay Natural History Society, 147, 182, 204
- Bonn, Germany, 134, 145
- Borlaug, Norman, 188–89, 191
- Bose, Subhas Chandra, 155, 161
- botany, 13, 24, 39, 79, 147
 - British colonial, 116, 123, 126, 127, 131, 132, 134
- bows, 67
- BRAC. *See also* Bangladesh, NGOs
- Brahmani River, 148
- Brahmaputra River, 11, 15–16, 17, 166, 168, 187
- Brahmins, 54, 58, 67, 75, 90, 125. *See also* Hinduism; Sanskritization; varna; *Veda*
 - Hinduism, in, 60, 63, 64, 66, 68, 69–71, 128
 - literature, 56, 68
 - priests, 42, 45, 53, 59, 60, 74, 110
 - sacrifices, 65, 100
 - South India, 73–75
- Brahui. *See also* Dravidian; Balochistan
- Brandis, Dietrich, 134, 143–47
- Brazil, 91
- breadfruit trees, 126
- bridges, 142, 143
- Britain, 136, 154, 187
 - Parliament, 123, 129, 134, 135, 137
- British Raj, 120, 135–53, 156–62
 - Agriculture Department, 146
 - Army, 132. *See also* sepoy
 - canals, 136, 137, 140–41, 147–51, 152, 156, 161
 - capitalist financing, 140–41, 147–49, 156
 - coal, 143
 - cyclones, 138, 161
 - electricity, 135, 156, 157
 - famines, 138, 141, 150, 152–53, 161
 - forest-dwellers, 30, 128, 136, 145, 146, 159–60, 161, 167
 - forestry, 129, 133, 134, 137, 139, 143–47, 152, 157, 158–61
 - Indian Civil Service, 137, 150, 168, 211
 - Indian Medical Service, 159
 - municipal government, 151–52
 - New Delhi, 83
 - princes under, 136, 141, 146, 147, 157, 167
 - Public Works Department, 133, 141, 149, 150, 152
 - railways, 133, 136, 137, 138, 139–43, 149, 152–53, 156
 - Revenue Department, 145, 146, 150
 - Scheduled Tribes, 30

286 Index

- British Raj (cont.)
wildlife, 138, 160
bronze, 36, 43
Brundtland Report, 209
Bt-brinjal, 228
Bt-cotton, 227–28
bubonic plague, 103, 159
Buchanan, Francis, 126
Buddhism, 50–51, 59–60, 63, 64–66, 67,
74, 75, 154, 171
buffalo, 57
Bukka Yadava, King, 89
bulls, 33, 38, 42, 55, 99, 118, 119, 121.
See also cattle
Bundelkhand, 133
Burma, 15, 26, 109, 134, 136, 161, 246.
See also South Asia, defined
- cactus, 72
Calcutta, 114, 120–23, 129, 132, 141, 143,
151, 152, 157–58, 161. *See also* Bengal
Calcutta Botanical Garden, 126
Calcutta Zoological Garden, 147
camels, 22, 40, 82, 97, 121
Canada, 218
canal colonies, 150, 156. *See also* Punjab
canals, 53, 85, 89, 118, 119, 120. *See also* by
name; by region
British Raj, 136, 137, 140–41, 147–51,
152, 156, 161
East India Company, 116, 124, 129,
132–34
India, Republic of, 184, 207
Mughal period, 106, 151
Pakistan, 169, 184, 191–92
partitioned, 165, 168
South India, 71, 76
Sultanate, 86, 106, 133, 151
Cannanore, 91
cannons. *See* gunpowder weapons
capsicum, 92. *See also* Columbian Exchange
caracals, 97, 114
carbon-dioxide, 18, 92, 180, 229, 244, 254,
255. *See also* greenhouse gases
carnelian, 39
carps, 74
carracks, 91. *See also* Portugal, colonialism
carrying capacity principle, 225
cartaz (license), 92. *See also* Portugal,
colonialism
cartography, 98, 116, 122, 126–27, 128
cashews, 92. *See also* Columbian Exchange
caste, 5, 70, 125, 127, 136. *See also* jati;
varna
Catherine of Braganza, Queen, 114
cattle, 15, 28, 31, 82. *See also* by specific
species; pastoralism
British colonial, 123, 138, 146
Mughal, 97, 99
Vedic, 42–43, 44, 45, 55
cedars, 138
census, 136
Central Asia, 16, 78–80
immigration from, 71, 82–83, 86, 88, 93,
95–96, 97
trade with, 16, 39, 65,
86
Centre for Science and Environment,
203, 250
Chandigarh, 179
Chandragupta, Emperor, 60–66. *See also*
Jainism; Mauryan Empire
charcoal, 118, 129
Charles II, King, 114
Charter of Indian Forestry, 134. *See also*
East India Company, forestry
Chatham, Royal School of Military
Engineering, 133
Chaudhury, I.M., 236, 237
chauth, 112. *See also* Marathas
check dams, 36, 71, 118, 119, 120, 147.
See also dams
cheetahs, 86, 97, 114, 138, 160
chemistry, 2, 5, 35, 39, 116, 143,
192, 243
Chenab River, 150, 156, 183, 186
Chennai. *See* Madras
chert, 36, 40
Chhattisgarh, 31. *See also* India, Republic of
chili pepper, 92. *See also* Columbian
Exchange
China, 11, 15, 16, 222, 251, 254
agriculture, 117, 129
China-Pakistan Economic Corridor,
16, 237
early civilization, 24, 35
imperial, 35, 82, 87, 93
India, Republic of, relations, 165,
187, 190
major dams, 180
Pakistan, relations, 16, 190, 195, 211,
231, 236, 237
trade with, 15–16, 65, 80, 81, 89, 91,
130–31
water sharing, 163, 168, 176, 187
Chipko, 4, 119, 155, 199–200
chir, 143, 157
Chishti Sufi order, 100
Chittagong, 91, 109, 251. *See also*
Bangladesh; Portugal, colonialism

Index

287

- Chittagong Hill Tracts, 170, 193, 219, 240, 242. *See also* Bengal; Bangladesh; forest-dwellers
- cholera, 127, 152
- Chota Nagpur, 63
- Christians, Indian, 77, 80–81, 91, 100, 153, 171, 177
- Chunar, 65
- cisterns, 118
- Cleghorn, Hugh, 132, 134, 144
- climate change, 1, 17–20, 47, 49, 196, 223, 226. *See also* Intergovernmental Panel on Climate Change; United Nations Framework Convention on Climate Change
- Bangladesh, 217, 223, 244–45, 246, 253–55
- historic, 49, 77–78, 85, 88, 89, 102, 118, 138, 159
- India, Republic of, 229, 230, 253–55
- Indus civilization, 34, 40, 41
- Pakistan, 223, 230, 238–39, 253–55
- Clive, Robert, 121–22
- chlorofluorocarbons (CFCs),
- cloth. *See also* cotton; silk; wool
- trade, 81, 88, 89, 112, 114, 120, 126, 155
- weaving, 69, 114, 118, 120, 122, 152, 220, 246
- clothing styles, 114
- coal, 49, 63, 67, 118
- Bangladesh, 246, 254
- British colonial, 143
- India, Republic of, 224, 246, 254
- Pakistan, 173, 231, 233, 237, 254
- Coca-Cola, 201
- Cochin, 81, 91, 120, 128
- coffee, 126, 129
- coke fuel, 118
- Columbian Exchange, 78, 91–92, 102, 103, 114
- common but differentiated responsibilities principle, 210
- conservation versus development, 3, 28–29, 31, 163, 166, 179, 182–83, 197–98
- Conservator of Forests. *See* forestry
- Convention on International Trade in Endangered Species of Wild Fauna and Flora, 211
- Cooch Bihar, 108
- Coopers Hill, Royal Indian Engineering College, 137, 146
- Copenhagen Conference, 229, 253
- copper, 24, 33, 36, 39, 55, 87, 92, 173
- Corbett National Park, 160
- Corbett, E.J. Jim, 160
- Corbusier, Charles-Edward Jeanneret, Le, 179
- corn, 92, 188–89. *See also* Columbian Exchange; Green Revolution
- Cornwallis, Charles, 124
- cotton, 89, 114, 120, 126, 155, 210. *See also* cloth
- genetically modified, 227–28
- Green Revolution, 188–89, 191
- Indus civilization, 33, 39
- raw, trade with Europe, 122, 138, 141, 143, 150
- Cotton, Arthur, 132–34, 147
- cows, 43, 119, 128. *See also* cattle
- crocodiles, 38
- cuisine, Indian style, 114
- cyclones, 20, 253
- Bangladesh, 171, 217, 220, 221, 244
- Bengal, 21, 61, 171
- British Raj, 138, 161
- Pakistan, 171, 236
- da Gama, Vasco, 91. *See also* Portugal, colonialism
- Dalai Lama, 109, 187
- Dalhousie, James Broun-Ramsay, Lord, 132, 134
- Daman, 91. *See also* Portugal, colonialism
- Damodar River, 157, 161
- Damodar Valley Corporation, 179–80
- dams, 19, 30, 53, 66, 69, 84, 89, 118. *See also* by dam name
- Bangladesh, 219, 221
- British colonial, 133, 147, 150, 151, 152, 157
- check or small, 36, 71, 118, 119, 120, 147
- hydroelectric. *See* electricity
- India, Republic of, 155, 184–85, 202, 207, 229, 254
- major or big, 2, 133, 179–80, 201–2, 207
- Pakistan, 2, 173, 180, 190–91, 193, 235, 254
- South India, 74, 76
- Sultanate, 86
- dana* (donations), 60
- Dandi, 155
- Darjeeling, 157
- darshan* (auspicious sight), 102
- Dasu Dam, 2. *See also* Pakistan; dams
- Daulatabad, 87
- Deccan, 11, 17, 33, 41, 58, 60, 64, 71–72, 84
- British Raj, 139, 141
- India, Republic of, 163, 176
- Maratha period, 109–10, 117, 119, 127

288 Index

- Deccan (cont.)
monsoons, 20, 71, 75
Mughal period, 106, 107, 109–12
rivers, 20, 21, 71, 75, 89. *See also* by river name
sultans, 78, 87, 88–89, 90, 105
Vijayanagar, 89–90
Deccan traps, 14
deep ecology, 155
deer, 57, 65, 68, 97
deforestation, 19, 21, 54, 62, 67, 78, 90, 131
Bangladesh, 219, 241, 242, 244, 246
British colonial, 115, 122, 126, 129, 131, 134, 138, 143
India, Republic of, 181, 199, 208, 225
Indus civilization, 40
Pakistan, 193, 212, 216
REDD+, 255
Dehra Dun, 145, 157, 181
Delhi, 83, 119, 249–50. *See also* New Delhi; Shahjahanabad
British colonial, 83, 129, 133, 158
India, Republic of, 188, 190, 201, 202, 225
Mughal Empire, 95, 96, 106–7, 110
sultans, 7, 78, 82, 85–89, 95
deodar trees, 143
Desai, Morarji, 201–2
desertification, 126
Deve Gowda, H.D., 226
development versus conservation, 3, 28–29, 31, 116, 163, 166, 179, 182–83, 197–98
Dhaka, 171, 192, 240, 243, 249
dhamma (Buddhist moral order), 60
dharma, 68, 69–71, 153. *See also* shastras
Dholavira, 35, 36. *See also* Indus civilization
dhows, 80
Diamer-Bhasha Dam, 2. *See also* Pakistan, dams
diamonds, 89, 95, 114
diarchy, 159
diesel, 191, 243. *See also* petroleum
diseases, 40, 114, 142. *See also* by name; medicine
British colonial period, 131, 138, 143, 150, 156, 159
Diu, 91. *See also* Portugal, colonialism
divide and rule strategy, 136, 157. *See also* British Raj

DNA, 25, 39, 42, 46, 70
dodo bird, 103
dogs, 38, 43, 97
dolphins, 45, 246
donkeys, 40, 43
Doxiadis, Constaninos, 192
Dravidian, 41, 47, 71–76, 80. *See also* Brahui; Kannada; Malayalam; Tamil; Telugu
droughts, 20, 25, 40, 49, 71, 76, 77, 82
British colonial period, 115, 122, 126, 147, 152–53
independence period, 176, 180, 200, 214, 215, 219, 227, 229, 233, 235
Mughal period, 95, 102, 103, 107, 108, 111
Dutch East India Company, 112, 113, 114. *See also* Netherlands, The
dvaita (dualism), 55
eagles, 72
Earth Summit. *See* Rio Conference
earthquakes, 14, 16, 176, 202, 227, 235
East India Company, 92, 113–14, 115–17, 120–35. *See also* by Presidency
armies, 121–22, 133, 136. *See also* sepoy
canals, 116, 124, 129, 132–34. *See also* by name; by region
Court of Directors, 113, 123, 128, 129
deforestation, 115, 126, 129, 134
electricity, 116, 132
famines, 115, 122, 126, 131, 161
forest-dwellers, 122, 128, 134
forestry, 116, 120, 123, 128–29, 131–32, 134
law, 125
Mughal period, 112, 113
Permanent Settlement, 124
princes under, 115, 123, 126, 136–37
Public Works Departments, 132
railways, 116, 132
surgeons, 125. *See also* green imperialism
training colleges, 133, 134
wars, 127, 129, 131
East India Irrigation and Canal Company, 133, 147–49. *See also* canals
East Indian Railway Company, 132. *See also* railways
East Pakistan. *See* Bengal; Pakistan, East
Eastern Ghats, 17
eco-chaos, 57
ecodevelopment, 203, 210, 224
ecofeminism, 28. *See also* feminism; gender
ecology, defined, 155
ecosystem people. *See* forest-dwellers
ecotourism, 240, 245
eggplants, 228
Egypt, 35, 64, 65, 86

Index

289

- El Niño Southern Oscillation, 20, 34, 49, 71, 76, 77. *See also* monsoons
1960s, 188, 191
British colonial period, 115, 152
Mughal period, 97, 102, 103, 107, 108, 111
- electricity
Bangladesh, 246
British Raj, 135, 156, 157
East India Company, 116, 132
India, Republic of, 179–80, 183, 184, 186, 188, 189, 202, 228
Pakistan, 169, 173, 186, 191, 193, 230–31, 237
- elephants, 12, 31, 38, 45, 59, 67, 90, 123
British colonial, 121, 138, 147
Mauryan, 63, 64
Mughal, 93, 95, 97, 99–100, 102, 105
Project Elephant, 198
Sanskrit, in, 57, 68–69
Tamil, in, 72
war, 54–55, 83, 86, 121
- Elizabeth I, Queen, 113
- Elwin, Verrier, 29. *See also* forest-dwellers
- energy. *See* by source
- English East India Company. *See* East India Company
- environment, knowledge of, 3, 115, 116, 227. *See also* historiography
British colonial, 114, 115, 116, 119, 124, 126, 128–29, 131–32, 150
India, Republic of, 198, 227
Mughal period, 97, 103
- environmental education, 234
- environmental history. *See* historiography
- environmental impact assessment, 193, 206, 210, 213, 214, 229, 231, 232–33, 235, 237, 241
- erosion, 16, 17, 61, 126, 145, 199, 203, 207
- Ershad, H.M., 220–21
- eucalyptus trees, 201
- Eurasians, 136, 142
- Europe, 78, 82. *See also* by nation; East India Company
trade with, 16, 65, 88, 91, 102, 107, 121. *See also* world system
- Everest, Mt., 14
- evergreen tree, 72
- e-waste, 252
- extinction, 135, 223, 246
- factories, East India Company, 114, 117. *See also* by name
- famines, 77
British Raj, 138, 141, 150, 152–53, 161
- East India Company, 115, 122, 126, 131, 161
independence period, 188, 191
Mughal period, 96, 102, 103, 108, 111
Sultanate period, 78, 88, 95
- FATA (Federally Administered Tribal Areas), 173. *See also* Pakistan
- Fatehpur, 100
- feminism, 4. *See also* ecofeminism; gender
- Ferozpur, 184
- fertilizer, chemical, 169, 179, 183, 188–89, 240
- fig tree, 59
- fire, 22–23, 27, 50, 59, 65, 86, 118, 241, 246. *See also* swidden
Indus civilization, 35, 36, 37
Sanskrit, in, 56–57, 58, 67
Vedic, 42, 43, 45, 46
- Firoz Shah Tugluq, 86
- First War for Indian Independence, 134, 135, 139, 141
- fish, 24, 71
Bangladesh, 241, 245
British colonial, 124, 125, 147
farming, 118, 245
India, Republic of, 177, 190
Sanskrit, in, 57, 68, 69
Tamil, in, 74
Vedic, 45, 52
- floods, 2, 15, 20, 21, 27, 57, 61, 85, 187
Bangladesh, 217, 218, 220, 221, 244
British colonial, 132, 142, 145, 147, 148, 149, 150, 157, 161
India, Republic of, 176, 179, 180, 184, 199, 202, 228–29
Indus civilization, 49
Pakistan, 171, 184, 186, 191, 212, 216, 235, 236, 239
- flush irrigation, 149. *See also* canals
- Ford Foundation, 163, 188, 208
- Forest Acts. *See* forestry; Scheduled Tribes
- forest deities, 74. *See also* Minakshi
- forest-dwellers, 24–31, 49, 54, 55, 56, 67, 85, 119
Bangladesh, 219, 239
British Raj, 30, 128, 136, 145, 146, 159–60, 161, 167
defined, 26
East India Company, 122–23, 128, 134
India, Republic of, 177, 179, 182, 198, 199, 202, 224, 225, 229
Jainism, in, 60
Mauryan Empire, 62, 64, 65
Mughal Empire, 96, 99, 108
Pakistan, 171, 193

290 Index

- forest-dwellers (cont.)
 Sanskrit, in, 56–57, 58, 69
 South India, 75
 Sultanate period, 86, 87, 88
 Vedic period, 44
 Vijayanagar, 90
- forestry, 67, 120
 Bangladesh, 201, 209, 239–40
 British Raj, 129, 133, 134, 137, 139, 143–47, 152, 157, 158–61
 East India Company, 116, 120, 123, 128–29, 131–32, 134
 India, Republic of, 181, 189, 198, 200–1, 203, 207–8
 Pakistan, 174–75, 193, 201, 212, 213, 215–16, 234
- fossil fuels, 92. *See also* coal; petroleum
- France, 121, 159
- French East India Company, 112, 114
- French National School of Forestry, 145
- fuelwood. *See* woodfuel; wood, local use
- Futehally, Zafar, 204
- Gadani, 251
- Gadgil, Madhav, 26, 203
- Gandhi, Indira, 187–90, 195, 196–201, 202–5, 245
- Gandhi, Mohandas “Mahatma”, 70, 139, 153–56, 178, 254
- Gandhi, Rajiv, 205–8, 209, 228
- Gandhi, Sanjay, 201, 202, 205
- Gandhi, Sonia, 228
- Gandhianism, 4, 199, 202
- Ganges Action Plan, 2, 206
- Ganges River, 1–2, 11, 15, 16, 17, 40, 166, 201
 canals, 133, 147, 148
 early conditions, 17, 22, 24
 Gupta period, 67
 Hinduism, 2, 48
 Magadha, 61, 63
 monsoons, 21
 partitioned, 168
 plain, 11, 24, 53, 60, 67, 83, 118, 141, 163
 shipping, 123, 129
 Vedic, 41, 43
- gardens, 58–59, 66
 British colonial, 126, 131, 147
 Mughal period, 95, 97, 103, 106–7
- Garhwal, 201–2
- gasoline. *See* petroleum
- Gautama, the Buddha. *See* Buddhism
- gender, 43, 69, 74–75, 80, 166, 176, 199, 208, 209–10, 212
- Bangladesh, 242–43, 246–47
- British colonial, 114, 127–28, 138, 159, 160
- Buddhism, in, 59
- Mughal period, 98, 105, 106
- Pakistan, 169, 215
- Portuguese colonialism, 92
- genetic evidence. *See* DNA
- genetically modified crops, 227–28, 230
- Genghis Khan, 82, 94
- Germany, 134, 145, 161–62
- Ghaggar-Hakra River, 34, 40
- Ghazni, 83
- ghi (clarified butter oil), 43, 46, 210
- Gibson, Alexander, 131
- Gilgit, 173, 211
- Gillani, Y.R., 237
- Gir Forest, 147
- glacial melt, 15, 16, 19, 61, 171, 191, 253
- glaciers, 15, 17, 18, 21, 22, 77, 171, 212
- Goa, 91. *See also* Portugal, colonialism
- goats, 15, 33, 43, 119, 153
- Godavari River, 120, 133, 147
- Gokula, Prince, 109
- gold, 15, 36, 43, 78, 81, 83, 105, 114, 120
- Golkonda, 88. *See also* Hyderabad
- Gond, 14, 26. *See also* forest-dwellers
- Gondwana, 13–14, 17, 21
- Government of India Acts, 159, 160
- Grameen Bank, 218, 244
- Grand Anicut Dam, 120, 133. *See also* dams
- Grand Trunk Road, 129
- grapes, 33
- Great Divergence, the, 116, 117
- Great Indian Peninsula Railway Company, 132. *See also* railways
- Great Trigonometrical Survey, 128. *See also* cartography
- Greece, 64, 235
- green benches. *See* Bangladesh, Supreme Court; India, Republic of, Supreme Court; Pakistan, Supreme Court
- green imperialism, 126, 128. *See also* East India Company
- Green Revolution, 188–89, 191–92, 200, 240
- greenhouse gases, 19, 226, 254. *See also* carbon-dioxide; methane
- Greenpeace, 252
- groundnuts, 92. *See also* Columbian Exchange
- guavas, 92. *See also* Columbian Exchange
- Guha, Ramachandra, 26

Index

291

- Gujarat, 36, 109, 112, 147, 153–54, 207, 208, 227, 229, 251. *See also* India, Republic of
sultans, 88, 91
Gujarat Maritime Board, 252
Gujral, I.K., 226
gunpowder weapons, 85, 88, 89, 91, 92, 114, 121, 123
Gupta Empire, 66–71
Gwadar, 235, 237. *See also* Balochistan
- Hailey National Park, 160
Hajj, 81, 92, 112, 113. *See also* Islam; Muslims
Harappa town, 32, 35. *See also* Indus civilization
Hardwar, 133
Harihara, King, 89
Harike barrage, 184. *See also* India, Republic of, dams
Harvard University, 115
Haryana, 86, 179, 189. *See also* India, Republic of
Hasina Wazed, Sheikh, 220, 244–47, 254
Hastings, Warren, 122
Hawkins, William, 105
hazardous waste, 234, 250–52
Heath, Josiah Marshall, 129
Hijri calendar, 101, 105, 108
Himachal Pradesh, 189, 198. *See also* India, Republic of
Himalayan Mountains, 11, 14–18, 19, 21, 22, 51, 64, 141, 199
Hindi language, 189
Hindu Kush Mountains, 16
Hindu nationalism, 47–48, 223, 226. *See also* Bharatiya Janata Party
Hinduism, 50–51, 57, 68–70, 125, 136, 157, 189. *See also* Brahmins
environmental perspective, 2, 4, 47–48, 119, 201–2, 254
Hippocratic system, 125. *See also* medicine
Hirakud Dam, 180. *See also* India, Republic of, dams
Hisar, 86
historiography, 3–6, 51, 56, 78, 93–94, 116, 139, 163–64, 196
HIV, 75
Holocene, 15, 19, 24, 49
Hong Kong, 131
horses, 22, 40, 78, 82–83, 85, 86
health in India, 82, 86, 95, 121
Mughal, 97, 98
sacrifice, 45, 53
trade in, 81, 83, 84, 88, 89, 92
Vedic, 43, 45
horseshoes, 43
Hudood laws, 212. *See also* Pakistan, Islam
Hugli, 91, 112. *See also* Portugal, colonialism
human, earliest immigration, 21–25, 77
Humayun, Emperor, 96
Huns, 82
hunting, 39, 43, 57, 67, 86
British Raj, 29
early human, 23, 24, 28
forest-dwellers, 28, 29, 31, 49, 55, 58, 60, 65, 86
Indian princes, 123, 137
Mughal, 93, 97, 100, 103, 105, 108
Pakistan, 194
hunting reserves, 123, 137, 147, 160
hybrid crops, 188, 240. *See* Green Revolution
Hyder 'Ali, Sultan, 123
Hyderabad, 88, 117, 119, 165
hydroelectricity. *See* dams; electricity
hydro-logic, 168
hyenas, 45, 57
- IBM, 201
Ibn Battuta, 88
Imperial Forest Research Institute, 145
Imperial Forest Service. *See* British Raj, forestry
imperial science, 150, 152
import-substitution, 182, 223
indentured labor, 136
India, Republic of, 3, 120, 125, 222–30, 248, 250, 252. *See also* by province
Bangladesh, relations, 168, 220, 246
canals, 184, 207
China, relations, 165, 187, 190
climate change, 223, 229, 253–55
coal, 224, 246, 254
Constitution, 177, 200–1, 204, 224
dams, 155, 184–85, 202, 207, 229, 254
deforestation, 181, 199, 208, 225
droughts, 200, 227
ecodevelopment, 224
electricity, 179–80, 183, 184, 186, 188, 189, 202, 228
Emergency period, 200–1
environmental legislation, 163, 167, 181, 195, 197–209, 224, 229, 230, 252
fishing, 177, 190
floods, 176, 179, 180, 184, 187, 199, 202, 228–29
forest-dwellers, 177, 179, 182, 198, 199, 202, 224, 225, 229

292 Index

- India, Republic of (cont.)
 forestry, 181, 189, 198, 200–1, 202–3, 207–8
 geography, 176
 Green Revolution, 188–89, 200
 hazardous waste, 250–52
 Indus River Treaty, 168, 183–86
 industrialization, 176, 182–83
 international agreements, 185–86, 190–91, 209–10, 222, 253–55
 joint forest management, 208–9, 224
 land redistribution, 190
 municipal government, 188
 Muslims, 83, 176, 201, 226, 229. *See also* Islam; Muslims
 natural gas, 224, 225
 NGOs, 176, 250
 nuclear power, 179, 254
 nuclear weapons, 200, 211, 223, 226–27, 233
 Pakistan, wars, 165–66, 187, 190, 194, 195, 196, 217, 226, 233
 Partition (1947), 163, 164–68, 176
 pastoralism, 181, 182, 208
 pesticides, 227
 petroleum, 198, 224
 pollution, 203, 224, 250
 population, 222
 poverty, 176, 190, 199, 202, 222
 princely states, 165–66, 190
 railways, 176
 renewable energy, 224
 rivers, 177, 180–81
 ship-breaking, 250–52
 social forestry, 200–1
 Supreme Court, 190, 202, 204–5, 206, 207, 209, 225–26
 urbanization, 249–50
 water, 186, 187, 199
 wildlife sanctuaries, 181–82, 197–99, 202, 203–4, 224
 Indian Civil Service, 137, 150, 168, 211
 Indian Forest Service. *See* British Raj, forestry
 Indian Medical Service, 159
 Indian National Army, 161
 Indian National Congress, 139, 155, 158, 160–61, 164, 176. *See also* Indian nationalism
 Congress (I), 202–8, 209, 223–26, 228–29
 Syndicate, 187, 190, 201–2
 Indian nationalism, 29, 136, 139, 154, 156–62. *See also* nationalists by name
 Indian Ocean, 11, 14, 20, 22, 23, 45, 78–80, 121
 Portuguese in, 91–92, 112
 trade, 81, 88, 89
 indigo, 89, 114, 120, 122, 150
 Indira Gandhi Canal, 181. *See also* India, Republic of, canals
 Indira Gandhi National Forest Academy, 181. *See also* Dehra Dun
 Indonesia, 76
 Indra, 42–44, 45, 56–57
 Indus civilization, 32–41, 44, 46, 49, 50
 Indus River, 2, 11, 22, 64, 67, 166, 186, 235. *See also* Pakistan; Sindh
 canals, 140, 150, 156, 171, 215, 235
 floods, 212, 236
 plain, 81–82, 83, 118, 163, 171
 Treaty, 168, 183–86, 190–91, 193
 Vedic, 41, 45
 industrialization, 168, 176, 182–83, 192, 193, 234
 Intended Nationally Determined Contributions, 230, 239, 253–55
 intergenerational equity, 209
 Intergovernmental Panel on Climate Change, 222
 International Monetary Fund, 239
 International Union for Conservation of Nature, 163, 190, 193, 198, 211, 212, 217, 242
 IR8 rice, 192
 Iran. *See* Persia
 Iraq, 80, 81, 82, 87. *See also* Mesopotamia
 iron, 49, 63, 67, 118, 129, 142, 143, 251
 Islam, 81–82, 83, 100, 101, 108, 242, 245. *See also* Muslims
 environmental perspective, 82, 84, 96, 169, 213, 216
 Pakistan, 169, 174, 192, 210, 212–13, 214, 215, 216, 217, 234
 Islamabad, 173, 192–93, 211, 237
 Italy, 228
 ivory, 36, 39. *See also* elephants
 jackfruit trees, 95
 Jahangir, Emperor, 102–5
 Jainism, 50–51, 59–60, 63–64, 100–1, 103, 119, 154
 Jaipur, 119
 Jallianwala Bagh, 159
 Jama'at-i Islami, 169, 242
 Jambho-ji, 119
 Jambu-dvipa (Land of the Rose-Apple Tree), 51
 Jammu, 165, 173. *See also* Kashmir

- Jamuna River, Bengal, 16
 Janagarh, 147
jana-pada (people's place), 52–53, 54, 55, 56, 60, 63
 Janata coalition, 201–2
 Janata Dal, 208–9
jangala (dry scrub-forests), 52
 Japan, 91, 102, 161–62, 182, 207, 227
jati, 69–71, 128. *See also* varna
Jatropha curcas, 254
 Jats, 109, 189
 Jaunpur, 88
 Java, 76
 Jesuits, 100
 Jewish communities, 77, 80–81
 Jhansi, 134
 Jharkhand, 31. *See also* India, Republic of
 Jhelum River, 156, 183, 186, 190
jhum. *See* swidden
 Jinnah, M.A., 155, 158, 164, 169, 174, 217
 Jodhpur, 119
 joint forest management, 208–9, 216, 224, 233, 234, 239, 242. *See also* by nation
 Jumna River, 83, 86, 106, 133, 181
 Junagadh, 165
 junks, Chinese, 80
 jute, 39, 116, 171, 217
- Kabul, 11, 16, 64, 94, 109, 113. *See also* Afghanistan
 Kahn, Louis, 192
 Kalabagh Dam, 235. *See also* dams, Pakistan
 Kalat, 165
 Kali Yuga, 56
 Kalidasa, 67
 Kalinga, 64. *See also* Orissa
 Kamrup, 108
 Kanchipuram, 67, 75–76
 Kannada, 72, 90. *See also* Dravidian
 Karachi, 170, 172, 173, 192, 231, 235, 239, 249, 251
 history, 82, 141, 143
 Karakoram Highway, 16
 Karakoram Mountains, 16
karez (underground canal), 84
 Kargil, 227, 233
karma, 59
 Karnafuly River, 193
 Karnataka, 180, 204. *See also* India, Republic of; Kannada
 Karuvaki, Mauryan Empress, 65
 Kashi Ganga Prasadini Sabha, 151. *See also* Varanasi
- Kashmir, 177, 183, 186, 187, 194, 227, 233, 235. *See also* India, Republic of; Pakistan
 kingdom, 88, 157, 165–66
 Mughal, 107, 109, 110
 Kateri Falls, 157
 Kautilya, 68–69
 Kaveri River, 75, 120, 133, 157, 180
 Keoladeo Ghana National Park, 147, 198
 Kerala, 72, 80–81, 91, 92, 189, 202, 204.
 See also India, Republic of
 Kerala Sastra Sahitya Parishad, 202
khadi, 155. *See also* cloth, weaving
 Khalistan, 205. *See also* India, Republic of
 Khalji dynasty, 86. *See also* Delhi, sultans
 Khan, 'Ali Mardan, 106
 Khan, Ayub, 168, 175, 186, 190–94
 Khan, Ghulam Ishaq, 215, 216, 230
 Khan, Liaquat Ali, 174
 Khan, Murshid Quli, 111
 Khan, Yahya, 194
 Khandava forest, 56–57
 Kharia, 26–27. *See also* forest-dwellers
 khejri trees, 119
 Khunjerab National Park, 211
 Khyber Pakhtunkhwa, 172–73, 237. *See also* North-West Frontier Province; Pakistan
 Khyber Pass, 16, 41, 83
 Kirthar National Park, 233
 Kishnaganga Dam, 186. *See also* India, Republic of, dams
 Koch, Robert, 152
 Koenig, Johann/John Gerhard, 123
 Kolkata. *See* Calcutta
 Kosi River, 229
 Krishna, 56–57
 Krishna River, 89, 133
 Krishnadevaraya, King, 90
 Krishnaraja Sagar Project, 157. *See also* dams
 Kshatriyas, 45, 54, 59, 60, 75
 Kumaun, 160
kumri. *See* swidden
 Kurnool, 157
 Kurnool-Cuddapah weir, 148
 Kushanas, 82
 Kutch, 83, 187, 194
 Kyoto Protocol, 226, 235, 242
- Lahore, 107, 113, 187
 Lakhra, 231
 lapis lazuli, 39
 Lawachara National Park, 242
 lead, trade in, 114

294 Index

- League of Nations, 159
 Leghari, Farooq, 232
 leopards, 12
 leprosy, 40
 Linnaeus, Carl, 69, 123, 127, 138
 lions, 57, 114, 138, 147
 Little Ice Age, 77
 Lodi dynasty, 88, 95. *See also* Delhi, sultans
 London, 123, 128, 135, 154. *See also* Britain
 lotuses, 74
 Lower Bari Doab, 156
 Lucknow, 119. *See also* Awadh
 Lucknow Pact, 158
- Madagascar, 14, 22
 Madhya Pradesh, 207. *See also* India,
 Republic of
Madhyadesh (Central/Middle Land), 51,
 53, 63
 Madras, 112, 114, 120, 123, 126, 141,
 143, 151
 Army, 121–22, 133
 Canal Department, 133
 Forest Department, 128, 132, 143–47
 Presidency Botanical Garden, 126
 Public Works Department, 132
 wildlife conservation, 147
 Madras Irrigation Company, 147–49. *See*
 also canals
 Madras Railway Company, 132. *See also*
 railways
 Madurai, 74–75, 88
 Magadha, 50, 60–65, 66–67. *See also* Bihar
Mahabharata, 56–57, 67. *See also* Sanskrit,
 literature
mahajana-pada. *See* jana-pada; Magadha
 Mahanadi River, 148, 157, 180
 Mahavira, 59–60
Mahila Sabhas, 199
 Mahmud of Ghazni, 83
 Mahyco (Maharashtra Hybrid Seeds
 Company), 228
 maize, 92, 188–89. *See also* Columbian
 Exchange; Green Revolution
 Malayalam, 72. *See also* Kerala
 Mangla Dam, 190. *See also* Pakistan, dams
 mango trees, 58, 65, 95, 118
 mangroves, 171, 220
 Manu, Laws of, 70
 Mapilla. *See* Muslims
 Marathas, 109–10, 111, 112, 117, 119, 127
 marble, 106
 Marco Polo sheep, 211
 martial races, 136. *See also* race, European
 concept; sepoys
- Marx, Karl, 138–39
 Marxism, 4
 mathematics, 36, 46, 67, 79
 Mathura, 65, 109, 119, 198
 Mauryan Empire, 50, 60–66, 68, 127
 Mayer, Albert, 179
 Mecca, 81, 108, 112, 113. *See also* Islam;
 Muslims
 medicine, 65, 67, 96, 122, 127–28, 146
 Medieval Warm Period, 77
 Mediterranean, 21, 33, 64, 80, 81, 89, 91.
 See also Europe
 Meghna River, 16
 Mehrgarh, 33–35. *See also* Indus civilization
 melons, 95
 mercantilism, 136. *See also* British Raj;
 world system
 Meru, Mt., 51
 Mesopotamia, 35, 37, 39, 40. *See also* Iraq
 mesquite, 207
 metal working. *See* specific metal
 meteorology, 20, 116, 126
 methane, 19, 180. *See also* greenhouse gases
 Mexico, 188
 microcredit, 218, 233. *See also* Bangladesh,
 NGOs
 Midnapur, 148
 Milankovitch cycles, 18
 millet, 40, 62, 150
 Minakshi, goddess, 74–75
 minerals. *See* individual minerals by name
 mining, 28, 49, 68, 143, 161, 229
 Mirza, Iskander, 174
 Modi, Narendra, 229–30, 254
 Mohenjo-daro, 35. *See also* Indus
 civilization
moksha (release from rebirth), 68
 Mongols, 82, 94, 95, 100, 101
 monism, 45, 50, 55, 101
 monkeys, 45, 58, 59, 72
 Monsanto, 228
 monsoons, 18–21, 42, 61, 85, 126, 171. *See*
 also El Niño Southern Oscillation
 Montreal Protocol on Substances that
 Deplete the Ozone Layer, 206, 214
 moon, 18, 105, 108, 119
 Morocco, 88
 mosquitoes, 150
 Mountbatten, Louis, 165
 Mu‘azzam, Prince, 113
 Mughal Empire, 93–113, 115–17, 122,
 127. *See also* individual emperors by
 name
 canals, 106, 151
 famines, 96, 102, 103, 108, 111

Index

295

- historiography, 93–94
 hunting, 93, 97, 100, 103, 105, 108, 123
 Muhammad Shah Tugluq, 87–88
 Muhammad, Ghulam, 174
Mukhti Bahini, 194, 199, 217, 218, 219.
 See also Bangladesh, independence
 mulberry trees, 126
 mules, 97
 multipurpose river development projects,
 157, 179–80, 185, 207. *See also* by
 name
 Mumbai, 229, 236, 249, 251. *See also*
 Bombay
 Mumtaz Mahal, Empress, 105
 Munda, 26. *See also* forest-dwellers
 Murshidabad, 119. *See also* Bengal
 Musharraf, Pervez, 233–36
 Muslim League, 158, 160, 164, 165, 169,
 171, 173, 174
 Muslims, 77, 78–89, 90, 92, 136, 153, 157,
 159, 213. *See also* India, Republic of;
 Islam; Pakistan
 British Raj, 160, 168
 Mussoorie, 157
 Myanmar. *See* Burma
 Mysore, 123, 132, 157
- nadu* (region), 72
 Nagas, 56–57, 75. *See also* forest-dwellers
 Nagpur, 143
 Nainital, 157
 Nalanda, 67
 Narmada River, 2, 17
 Narmada River Dam, 207. *See also* dams,
 India, Republic of
 Natal, 154. *See also* Africa; Gandhi,
 Mohandas “Mahatma”
 Nationally Determined Contributions,
 253–55
 natural gas, 173, 224, 225, 233, 236, 240,
 243, 246
 nature, defined, 1–2, 153, 154
 Navanagar, 109
 Naxalite, 177, 199. *See also* resistance, local
 community
 neem, 227
 Nehru, Jawaharlal, 29, 70, 155, 157, 164,
 175–87, 223
 neoliberalism, 209, 215, 226, 228, 230
 Nepal, 163, 165, 176, 229
 Nestorian Church. *See* Christians, Indian
 Netherlands, The, 218, 231. *See also* Dutch
 East India Company
 New Delhi, 83, 158, 190, 203, 225. *See also*
 Delhi
- Nilgiri Mountains, 17, 202, 203
nirvana, 59, 63, 65
 Nishorgo Support Project, 242
 nitrogen fertilizer. *See* fertilizer, chemical
 nonviolence, 50, 59–60, 68, 119, 154
 North West Province, 149
 Northern Black Polished Ware, 51. *See also*
 pottery
 Northern Territories, 173. *See also* Pakistan
 North-West Frontier Province, 172–73,
 193, 213, 216, 233, 234, 235. *See also*
 Khyber Pakhtunkhwa; Pakistan
 nuclear power, 19, 179, 192, 246, 254
 nuclear weapons, 19, 162, 200, 211, 223,
 226–27, 233, 234
 Nur Jahan, Empress, 103, 105
- Odisha, 64, 73, 148, 180, 224, 229. *See also*
 India, Republic of
 oil seeds, 39
 okra, 92. *See also* Columbian Exchange
 Oman, 236. *See also* Persian Gulf
 OPEC, 200. *See also* petroleum
 opium, 105, 122, 130–31, 150
 Orissa, 64, 73, 148, 180, 224, 229. *See also*
 India, Republic of
 Oriya language, 158
 Ottoman Empire, 88, 91. *See also* Turkey;
 Turks
 Oudh, 117, 119,
 134
 oxen, 33
 Oxford University, 146, 215
 ozone, 206, 207, 214, 242. *See also*
 greenhouse gases
- Padma River, Bengal, 16
 Pahari language, 189
 Painted Gray Ware, 34, 41, 50. *See also*
 pottery
 Pakhtuns, 172–73, 213. *See also*
 Afghanistan; North-West Frontier
 Province
 Pakistan, 3, 120, 125, 171–73, 190–94,
 210–16, 230–39, 248. *See also* by
 province
 Afghanistan, relations, 163, 165, 168,
 172, 234
 architecture, 192–93
 Army, 168, 171, 187, 190–94, 212–15,
 230, 232, 233–36, 237, 239. *See also*
 Pakistan; India wars
 canals, 169, 184, 191–92
 China, relations, 16, 190, 195, 211, 231,
 236, 237

296 Index

- Pakistan (cont.)
 climate change, 223, 230, 238–39, 253–55
 coal, 173, 231, 233, 237, 254
 constitutions, 173–75, 190, 194, 211–12, 231, 232, 233, 236, 237
 copper, 173
 cyclones, 171, 236
 dams, 2, 173, 180, 190–91, 193, 235, 254
 deforestation, 193, 212, 216
 droughts, 233, 235
 East, 85, 168, 170–71, 187, 192. *See also* Bangladesh
 electricity, 169, 173, 186, 191, 193, 230–31, 237
 environmental education, 234
 environmental impact assessment, 235, 237
 environmental legislation, 163, 167, 174–75, 195, 211–14, 230, 232–33, 234–35, 237–39, 252
 famines, 191
 floods, 171, 184, 186, 187, 191, 212, 216, 235, 236, 239
 forest-dwellers, 171, 193
 forestry, 174–75, 193, 201, 212, 213, 215–16, 234
 gender, 169, 215
 geography, 171–73
 Green Revolution, 191–92
 hazardous waste, 234, 250–52
 India, wars, 165–66, 187, 190, 194, 195, 196, 217, 227, 233
 Indus River Treaty, 168, 183–86, 190–91, 193
 industrialization, 168, 192, 193, 234
 international agreements, 175, 185–86, 190–91, 209–10, 211, 214, 222, 230, 253–55
 Islam, 169, 174, 192, 210, 212–13, 214, 215, 216, 217, 234
 joint forest management, 209, 216, 233, 234
 land reform, 192, 210, 234
 landholders, 169
 Muhajirs, 166, 168, 170, 173, 210
 natural gas, 173, 233, 236
 neoliberalism, 230
 news media, 231
 NGOs, 169, 210, 231, 234
 nuclear power, 192, 254
 nuclear weapons, 211, 226–27, 233, 234
 participatory irrigation management, 209, 214, 233
 partition (1947), 163, 164–73
 partition (1971), 194, 217
 pastoralism, 193
 pesticides, 215
 petroleum, 174, 192, 214, 215, 231, 233, 235, 236
 pollution, 232
 poverty, 192, 233, 235
 princely states, 165–66, 169
 railways, 168
 renewable energy, 234
 sewage systems, 169, 231
 ship-breaking, 250–52
 social forestry, 201
 Stockholm Conference, 195
 Supreme Court, 204, 211, 216, 231, 232, 236, 237, 239
 urbanization, 249–50
 water, 171, 186, 215
 Water and Power Development Authority, 191, 231
 wildlife sanctuaries, 193–94, 211, 233, 235
 Pakistan Forest Institute, 175
 Pakistan Muslim League. *See* Sharif, Nawaz
 Pakistan People's Party, 172, 210, 212, 214–15, 230–32, 236–37
 Pakistani nationalism, 139, 155, 156–62
 Paleolithic, 23
 Pali language, 60
 Pallava dynasty, 75–76
 Pamban Strait, 133
 panchayats, 160, 224
 Pandyan dynasty, 74–75
 Pani. *See* forest-dwellers
 Panipat, 95
 papayas, 92. *See also* Columbian Exchange
 paper industry, 181
 Paris Conference, 230, 239, 253–55
 parrots, 74
 Parthians, 82
 Partition (1947), 156, 158, 161, 163, 164–73, 176
 Parvati, goddess, 74–75
 Pashto language, 172–73
 pastoralism, 62, 69, 71, 72, 86, 99, 119, 123, 166
 British colonial period, 122, 134, 138, 140, 146, 167
 early, 24, 25, 40, 49
 India, Republic of, 181, 182, 208
 Pakistan, 193
 Vedic culture, 41–42
 Pataliputra, 63
 Patna, 63
 Peacock Throne, 105

Index

297

- peacocks, 63, 72, 95, 105
Pegu. *See* Burma
pepper, 89, 92
Persia, 16, 43, 63, 82, 108
 culture, 93, 95, 97, 98, 101
 immigration from, 80, 86, 97
 trade with, 86, 88
Persian Gulf, 23, 39, 40, 236
 emigration to, 214, 215, 220
 trade with, 40, 89, 91
 War (1990–91), 215
Persian language, 93, 125
Persian waterwheels, 84, 107, 118
pesticides, 9, 188, 189, 215, 227, 240
petroleum, 200, 251, 252
 Bangladesh, 243, 246
 India, Republic of, 198, 224
 Pakistan, 174, 192, 214, 215, 231, 233, 235, 236
Philippines, 113, 188
Physiocrat, 124, 125
pigeons, 97
pigs, 38, 82, 128
pine trees, 143, 157, 201
pineapples, 92. *See also* Columbian Exchange
pipal trees, 55
plague, 103, 159
plantain trees, 95
Plassey, battle of, 121–22
plate tectonics, 13–18, 19, 40, 91
Pleistocene, 22
plowshares, steel, 85
plutonium, 211
polio, 236
polluter pays principle, 209, 224, 225, 226
pollution, 151, 189, 222, 224, 225, 232, 246, 250–52. *See also* by nation
 air, 131, 151, 198, 225, 245, 250
 biological, 5, 232
 chemical, 5, 19, 161, 187, 206, 207, 215, 226, 232
 water, 131, 217, 235
polychlorinated biphenyls, 251
Pondicherry, 121. *See also* France
Poona, 131, 151
Pope, Roman Catholic, 91
poplar trees, 201
population control, 196, 201
porpoises, 246
Porto Novo, 129
Portugal, colonialism, 78, 89, 91–92, 100, 109, 112, 113, 114
postal communication, 129, 132, 134
potatoes, 92. *See also* Columbian Exchange
pottery, 34, 37, 41, 50, 51, 69, 106
poverty, 2, 163, 195, 209–10
 Bangladesh, 9, 245, 246–47
 India, Republic of, 176, 190, 199, 202, 222
 Pakistan, 192, 233, 235
prawns, 220, 242
precautionary principle, 209, 225, 231
Presidency. *See* Bengal; Bombay; Madras
princely states, 169, 190
 British Raj, 136, 141, 146, 147, 157, 167
 East India Company, 115, 123, 126, 132
 Partition (1947), 165–66
Production Forests, 181. *See also* forestry
Project Elephant, 198. *See also* elephants
Project Tiger, India, 160, 198–99. *See also* tigers
Protected Forests, 145, 161, 181. *See also* forestry
Ptolemy, 95
Public Interest Litigation, 204–5, 209, 211, 221, 225, 236, 243
Public Works Department. *See* British Raj; by Presidency; East India Company
pulses, 150
Punjab, 45, 64, 109, 117, 127, 194. *See also* India, Republic of; Pakistan
 British colonial period, 129, 134, 136, 159
 canals, 136, 150, 156
 East, 179, 184, 189, 205
 Forest Department, 132
 Land Alienation Acts, 136
 Pakistan, 84, 171, 173, 187, 191, 210, 215, 233, 235, 237
 partition (1947), 165, 168
 railways, 136
Putlibai. *See also* Gandhi, Mohandas “Mahatma”
 qamargha, 100, 123. *See also* hunting
 qanat (underground canal), 84
 qasbas (market-towns), 99
 quartz, 142
Quran, 87, 106, 169, 212, 214, 216. *See also* Islam; Muslims
rabbits, 59
race, European concept, 70, 127–28, 136, 137, 142, 152, 154, 158, 161, 167
Radcliffe, Cyril, 165, 184
Rahman, Sheikh Mujibur, 194, 217–19
Rahman, Ziaur, 219–20

298 Index

- railways, 168, 176
 British Raj, 133, 136, 137, 138, 139–43,
 149, 152–53, 156
 East India Company, 116, 132
 rainwater harvesting, 118
 Raj. *See* British Raj
 Rajasthan, 21, 22, 83, 110, 119, 181, 184.
 See also India, Republic of
 Rajputs, 82, 87, 98, 100, 111, 119
Ramayana, 57–59, 67. *See also* Sanskrit
 literature
 Ramsar Convention, 147. *See also* wetlands
 Rana Plaza factory, 246
 Rann of Kutch, 83, 187, 194
 Rao, P.V. Narasimha, 209, 223–26
 Ravi River, 156, 181, 183, 186
 Rawalpindi, 192
 rayon, 181
 recycling, 250–52
 Red Sea, 91. *See also* Persian Gulf
 Reducing Emissions from Deforestation
 and Forest Degradation, REDD+, 255
 renewable energy, 224, 234, 254
 Rennell, James, 126
 Reservations. *See* Scheduled Tribes;
 Scheduled Castes
 Reserved Forests, 145, 157, 161, 201, 203,
 220, 229. *See also* forestry
 reservoirs. *See* dams
 resin, 157, 181
 resistance, local community, 86, 119, 146,
 155, 157, 158, 167, 202. *See also*
 Chipko; Naxalite
 rhinoceros, 12, 22, 38, 95
 Ribbentrop, Berhold, 145, 146
 rice, 12, 15, 62, 85, 141, 171
 Bangladesh, 219, 220, 240
 Green Revolution, 188–89, 192, 240
 South India, 71, 76
 trade in, 150, 161, 210
 rikshaws, 243
 Rio Conference, 195, 196, 209–10, 216,
 221, 224, 225, 232, 239
 Ripley, S. Dillon, 181
 rivers. *See* by name
 Rockefeller Foundation, 188, 231
 Rohingya, 109, 246
 Rohri Hills, 36
 Roman Empire, 80
 Roorkee, 133
 rose-apple tree, 51
 Rousseau, Jean-Jacques, 128
 Roxburgh, William, 126
 Royal Engineers, British, 132
 Royal Indian Engineering College, 137, 146
 Royal School of Military Engineering, 133
 Ruskin, John, 154
 Russia, 179, 187, 202, 211, 213, 214, 246

 sacred groves, 3, 38, 73, 74, 145
 sal trees, 143
 Salim Chishti, Sheikh, 100
 salinization, 150, 156, 189, 191, 220, 235
 salt, 15, 121, 155
 saltpeter, 112, 114, 120, 121
 Samarkand, 88
 Sambhaji, Prince, 109
 sandalwood, 58, 89
 sandstone, 106
 Sangam, Tamil, 72–73
sangha, 59, 66, 74
 Sanitarian system, 125. *See also* medicine
sannyasi, 54
 Sanskrit, 41, 44, 46, 51–54, 55, 60, 74, 110
 gender in, 69
 literature, 56–59, 67
 Mughal period, 93, 97, 100, 102
 shastras, 68–69, 79, 125
 South India, 72, 73, 76
 Sanskritization, 54, 68, 73–75, 82, 87
 Santals, 134. *See also* forest-dwellers
 Sardar Sarovar Dam, 2, 180, 207. *See also*
 dams, India, Republic of
 Satara, 134
 Satchari National Park, 242
 Satgaon, 91. *See also* Portugal, colonialism
 Satpura Mountains, 17
satyagraha. *See* Gandhi, Mohandas
 “Mahatma”
 Sayyid dynasty, 88. *See also* Delhi, sultans
 Scheduled Castes, 45, 136
 Scheduled Tribes, 29–31, 182. *See also*
 forest-dwellers
 Schlich, Wilhelm/William, 145
 scientific forestry, 134, 145, 175, 181, 201.
 See also forestry
 Scotland, science, 125–26, 131–32. *See also*
 green imperialism
 Scythians, 82
 sea-level change, 17, 22, 246. *See also*
 climate change; floods
 sedentization, 85, 140, 150. *See also* forest-
 dwellers; pastoralism
 sediment, 16, 17. *See also* erosion
 seed banks, 227
 Seleucus Nicator, 64
 Sepoy Mutiny, 134, 135, 139, 141
 sepoy, 114, 121–22, 123, 132, 134,
 158–59, 161–62. *See also* East India
 Company, armies

- sericulture, 39, 117, 126
 sewage systems, 36, 106–7, 118
 British colonial, 129, 147, 151–52, 158
 India, Republic of, 188
 Pakistan, 169, 231
 Seychelles, 14, 22
 Shah Jahan, Emperor, 102, 105–7
 Shah, Alpa, 31
 Shahjahanabad, 105, 106–7, 110, 129, 158.
 See also Delhi
 Shakas, 82
shakti (energy), 73, 74
Shakuntala, 67. *See also* Sanskrit, literature
 Sharif, Nawaz, 210, 215–16, 230, 232–33,
 236, 237–39
 sharks, 246
shastras, 68–69, 70, 79, 125
 Shastri, Lal Bahadur, 187, 194
 sheep, 15, 33, 82
 Shekhar, Chandra, 209
 Sher Shah Suri, 96
 shifting agriculture. *See* swidden
 Shi'ism, 88, 173. *See also* Islam; Muslims
 Shimla, 157
 ship-breaking, 250–52
 shipbuilding, 116, 120, 122, 128, 130
 ships, 45, 79, 80, 118, 133, 135
 Shiva, 74, 75
 Shivaji, Emperor, 109–10, 119
 shrimps, 220, 242
 Shudras, 45, 60, 63
 Siachen Glacier, 212
 Siddhartha Gautama, the Buddha. *See*
 Buddhism
 Sikh Golden Temple, 205
 Sikhs, 109, 117, 127, 134, 136, 166, 171,
 189, 205
 Sikkim, 166
 Silent Valley, 202
 silk, 39, 117, 126
 Silk Road, 81. *See also* China
 silver, 36, 55, 83, 87
 European importation, 78, 92, 102, 107,
 114, 120
 Simlipal Tiger Reserve and National
 Park, 224
 Sindh, 82, 83, 123, 156, 173, 191, 215,
 233. *See also* Indus River
 Pakistan, 171–72, 192, 231, 233,
 235, 237
 Singapore, 161
 Singh, Charan, 202
 Singh, Manmohan, 223, 228–29
 Singh, Sawai Jai, 119
 Singh, V.P., 208–9
 Siraiki language, 171
 Siraj al-Daula, Nawab, 121
 Sita, 57–59
 Sitakunda, 251
 Siwalik Hills, 22
 slash-and-burn agriculture. *See* swidden
 slavery, human, 81, 83, 86, 88, 124
 smallpox, 75
 Smithsonian Institution, 181, 197
 social forestry, 200–1, 203, 213, 234, 239,
 241, 242
 socialism, 199, 209, 210, 223
 solar panels, 224, 254
 Son River, 63, 148
 South Africa, 154. *See also* Gandhi,
 Mohandas “Mahatma”
 South Asia, defined, 1, 11, 13–18, 51–54,
 94–95, 248
 South India, 11, 21, 41, 47, 71–76, 80, 91,
 140, 176. *See also* by province; Deccan;
 Dravidian
 Southeast Asia, 23, 24, 57, 65, 80, 82, 91,
 92, 161
 Spain, 91, 114
 Spanish Influenza, 138, 159
 spice trade, 81, 89, 92, 112, 114. *See also* by
 spice name
 spinning wheels. *See* cloth, weaving
 Sri Lanka, 24, 76, 133. *See also* South Asia,
 defined
 Srinagar, 157
 Srinivas, M.N., 54
 St. Thome, 91. *See also* Portugal,
 colonialism
 steam power, 129, 135, 142
 steatite, 37, 39
 steel, 63, 67, 85, 135, 142, 143, 182, 215,
 250–52
 stepwells, 86, 118, 119
 stirrups, 43
 Stockholm Conference, 195, 196, 209,
 211, 226
 Strachey, Richard, 132–34, 147, 149
 stupas (reliquary structures), 65, 75
 Suez Canal, 135
 Sufism, 83–85, 87, 100, 119. *See also* Islam;
 Muslims
 sugarcane, 114, 126, 150
 Suleiman Mountains, 16
 sultans. *See* by specific region; dynasty
 sun, 18–19, 21, 34, 42, 77, 224, 254
 Mughal Empire, 100, 101, 105,
 108
 Sundarbans, 171, 193, 219, 240, 244, 246,
 254. *See also* Bangladesh; Bengal

300 Index

- Sunnism, 105, 107, 173, 215. *See also* Islam; Muslims
- Supreme Court. *See by nation*
- Surangam (underground canal), 84
- Surat, 109, 110, 112, 113
- sustainable development, 209–10, 221, 224, 229, 231, 234, 244, 245
- Sutlej River, 183–84, 186
- Swachh Bharat Abhiyan, 230
- Sweden, 208
- swidden, 27–28, 29, 49, 65, 86, 99, 123. *See also* forest-dwellers
- British Raj, 146
- India, Republic of, 181, 202
- Sylhet, 242
- Syrian Christians. *See* Christians, Indian
- Tadadakai, goddess, 74–75
- Taj Mahal, 106, 198
- Taliban, 213, 234, 236
- Tamerlane, 88, 107
- Tamil, 72–73, 90, 120. *See also* Dravidian
- Tamil Nadu, 180, 189, 204. *See also* India, Republic of
- Tarbela Dam, 191. *See also* Pakistan, dams
- Tashkent, 187, 194
- Tata corporations, 157
- tea, 126, 129
- teak, 120, 122, 126, 128, 134, 138, 143
- Tehri Dam, 201–2. *See also* India, Republic of, dams
- Tehri-Garhwal, 199–200
- telegraph, 116, 132, 134, 135, 139
- Telugu, 72, 90. *See also* Dravidian
- temples, 72, 73–75, 80, 83, 89, 90, 98, 109, 110. *See also* Brahmins; by temple name
- water control, 71, 118, 120
- Tennessee Valley Authority, 157, 185
- test works. *See* famines, British Raj
- Thanjavur, 111
- Thar Desert, 21, 83, 237
- theodolites, 128
- Thomason College, 134
- Thoreau, Henry David, 154
- Tibet, 11, 14–16, 26, 109, 163, 187
- Tibeto-Burman languages, 15, 26. *See also* forest-dwellers
- tigers, 12, 31, 38, 57, 59, 105, 138
- Project Tiger, India, 160, 198–99
- Tiger Action Plan, Bangladesh, 244
- timber trade, 28, 54, 63, 73, 120, 145, 167, 187. *See also* forestry; wood, local use
- Bangladesh, 240, 244
- British colonial, 116, 128–29, 130, 132, 141, 143, 146, 157, 159–60, 161
- India, Republic of, 181, 198, 201, 202–3, 207–8, 225
- Pakistan, 173, 174, 175, 193, 216, 234
- time, concepts of, 56, 101, 105, 108, 143
- Timur, 88, 107
- tin, 36
- Tipu Sultan, 123
- tirtha (river-crossing), 52
- Toba volcano, 23
- tobacco, 92. *See also* Columbian Exchange
- Tolstoy, Leo, 154
- tomatoes, 92. *See also* Columbian Exchange
- Tondaimandalam, 67, 75–76
- Tordesillas, Treaty of, 91
- Traditional Knowledge Digital Library, 227
- Trautmann, Thomas, 54
- Travancore, 120, 128, 157
- tribals. *See* forest-dwellers
- Triple Canal Project, 156. *See also* dams, British colonial
- Tropic of Cancer, 19
- tsunami, 228
- tuberculosis, 40
- tube-wells, 157, 189, 191, 242–43
- Tugluq dynasty, 86, 87–88. *See also* Delhi, sultans
- Tuluva dynasty, 90. *See also* Vijayanagar
- Tungabhadra River, 89, 148
- tunnels. *See* railways
- Turkey, 33, 39, 88, 91, 251
- turkey bird, 103. *See also* Columbian Exchange
- Turks, 82, 86, 87, 88, 94, 101
- turmeric, 227
- turpentine, 157
- turtles, 246
- Ujjain, 119
- Union Carbide India, 205
- United Nations, 163, 166, 175, 187, 191, 195, 214, 220, 229, 230
- Conference on Environment and Development, 195, 196, 209–10, 216, 221, 224, 225, 232, 239
- Conference on the Human Environment, 195, 196, 209, 211, 226
- Development Program, 218, 220, 239, 241
- Framework Convention on Climate Change, 47, 210, 224, 230, 253–55
- peacekeeping, 243
- UNESCO, 203, 224
- United States, 201, 205, 227, 228, 234, 237

- aid, 179, 185–86, 234, 242
 untouchables. *See* Scheduled Castes
Upanishad (esoteric books), 55
 uranium, 211
 urbanization, 53, 87, 122, 124, 151–52, 220, 246, 249–50
 Urdu language, 170, 173
 USSR, 179, 187, 202, 211, 213, 214, 246
 Utilitarianism, 129
 Uttar Pradesh, 65, 198, 199–200. *See also* India, Republic of
 Uttarakhand, 199. *See also* India, Republic of
- Vaishnava, 119, 153. *See also* Hinduism
 Vaishyas, 45, 54, 153
 Vajpayee, A.B., 226–28
 Valmiki, 57–59, 67
vana (forestland), 52
vanaprastha (forest-retreater), 54
vanavasi (forest-dweller), 31
vanjati (forest-born), 31
 Varanasi, 119, 122, 151
 varna, 45, 54, 59–60, 63, 64, 69–71, 153
Vedanta (end of the Vedas), 55
 Vedanta Resources corporation, 229
 Vedic culture, 26, 41–48, 49, 51–54, 57, 63, 65, 69, 254. *See also* Hinduism
 pastoralism, 41–42, 44, 55
 Vedas, 33, 42, 68
 vegetarianism, 65, 69, 74, 100–1, 153
 Viceroy. *See* British Raj; by name
 Victoria, Queen, 137
 Vijayanagar, 78, 89–90
 Vindhya Mountains, 17, 141
 Vishnu, 58, 66, 74
 volcanoes, 14, 19, 23, 77
- Walker Circulation, 20. *See also* monsoons
 walrus tusk, 103
 water control. *See* canals; dams; water wells
 water pollution. *See* pollution
 water table, 1, 19, 118, 150, 151, 189, 191, 240, 242–43
 water wars, 183
 waterlogging, 143, 149, 150, 156, 189, 191, 235
 water-wells, 65, 118
 Watson, Captain, 128
- weirs. *See* dams
 West Asia, 78–80, 82
 West Bengal. *See* Bengal
 West Pakistan. *See* Pakistan
 Western Ghats, 17, 19, 20, 76, 90, 120, 128, 129, 141, 202
 wetlands, 147, 214, 221, 234, 245. *See also* Sundarbans
 whales, 246
 wheat, 12, 33, 62, 141, 150, 188–89, 191–92
 wheels, early use of, 34, 43, 45, 118
 wilderness, 44, 57, 58, 95, 109, 116, 128, 153, 182, 211
 wildlife conservation. *See* by government; species
 Wildlife Institute of India, 204
 Wilson, Woodrow, 159
 wind power, 118, 224, 254
 wine, 33
 wood, local use, 29, 40, 99, 146, 198, 199, 201. *See also* by tree species
 woodfuel, 28, 54, 118, 146, 181, 201, 207, 213
 wool, 15, 39, 114
 World Bank, 208, 210, 255
 Bangladesh, 218, 220, 221, 244
 India, Republic of, 180, 207, 224
 Indus River Treaty, 185–86
 Pakistan, 191, 213
 World Heritage Sites, 147
 world system, 5, 8, 115–16, 120–23, 130, 135, 141, 143, 155, 160
 World Trade Organization, 227
 World Wars I, II, 139, 156, 158–59, 161–62
 World Wildlife Fund for Nature, 163, 182, 193, 202, 204, 211, 225
- Yunus, Muhammad, 218, 244
- zamindars, 98, 109, 112, 122, 124, 125
 Zaragoza, Treaty of, 91
 Zardari, Asaf Ali, 215, 232, 236–37
 zebu, 33. *See also* bulls
 Zia ul-Huq, 212–15
 Zia, Khalida, 220, 221, 239–44
 zoology, 40, 97, 116, 127, 147
 Zoroastrianism, 43