

INDEX

Page numbers in *italics* refer to illustrations

- Abhaya tank, Sri Lanka, 174, 175
 acculturation model, Indo-Aryan, 43, 47, 49–51, 52, 91, 99, 331
 Achaemenids, 83, 151, 212, 336
 architectural influences, 203, 238, 254, 260, 273
 influence on coinage, 105, 113, 131, 218
 occupation of northwest India–Pakistan, 125, 129, 130–2, 280, 282
 Adam, 305, 306
adī, water channel, 176
 Afghanistan, 3, 31, 47, 206
 inscriptions, 198, 213, 214
 trade, 15, 64, 123, 167, 281
 Agaundh, 80
 Agnimitra, Sunga ruler, 277, 278
 Agra, 20
 Agrawal, D. P., 65
 Agrawala, V. S., 216, 252
 agriculture, 18, 21, 45–6, 47, 65–7, 75–6, 82
 in Arthashastra, 109, 192–3
 iron plough, 65, 66, 99, 108, 112, 119
 see also irrigation; rice
 Agroha, 294
 Ahar, 57, 58, 59, 64, 67, 82
 Ahicchatra, 96, 102, 103, 109, 111
 Mauryan, 204, 207, 208
 post-Mauryan, 231, 277, 297
Ahimsā, 332
 Airakana, Airikina, *see* Eran
 Ajanta, 319, 321, 338
 Ajātsatru, king, 202, 333
 Ajita Keśakambali, 340
 Ājīvika sect, 183, 247, 340
 Ajmer, 279
 Akara Dheri, 130, 206
 Alexander the Great, campaigns in India, 16, 130, 187, 188, 292–3, 334
 effects of, 151, 212, 238, 282, 340
ali, *see* *adī*,
 Ali, S. M., 292
 Allahabad district, settlement patterns, 61, 78, 81, 82, 105–9, 112, 197–8
 Allchin, B., 62–3
 Allchin, F. R., 56, 58, 62–3, 286
 Alor, 292
 altars, 91, 298
 Altekar, A. S., 203, 237
 Amarāvati (Dhānyakaṭaka), 146–7, 167, 207, 208, 305, 306, 309
 architecture and sculpture, 22, 246, 312, 313, 314, 319, 320
amātya (Mauryan council of ministers), 190, 332
 Ambalantota, 171, 173
 Amreli, copper from, 64
 Amri, 31, 36, 49
 Ānanda, son of Vāsiṭhi, 279–80
 Anāthapiṇḍaka, 300
 Anatolia, 45, 47
 Andhra Pradesh, 21
 emergence of cities, 136, 139, 140, 146, 167
 Mauryan structures, 250–1
 post-Mauryan period, 278, 280, 281, 305–6, 315–16
 Āndhras, 114, 198
 see also Satavahanas
 Anga, 110, 114, 115
āṅgula, finger, 217
 animals, domesticated, 76, 82
 Antialcidas, king, 136, 249, 304
 Antiochus the Great, 278
 Anurādha, prince, 174
 Anurādhagāma, 174
 Anurādhapura, 13, 158, 172, 182–3, 225
 Abhayagiriya stupa and monastic complex, 159, 160, 183
 archaeological evidence from, 8, 153, 159–69
 Citadel mound, 156, 159, 160, 161, 162, 167
 coins, 167, 169, 180–2
 inscriptions, 147, 150, 165, 167, 168, 169, 176–9, 211
 irrigation works, 159, 173–6
 Jetavana stupa and monastery, 159, 160, 183
 Mahāstūpa and Mahāvihāra, 152, 159, 160, 183
 Thūpārāma Dāgaba, 183

- 'urban' characteristics, 57, 58, 62, 63, 64, 66, 207
Aparānta, 198
Aparāntaka, 159
 Āpastamba, Dharmasūtra of, 113
 Apollodotus, king, 278
 Apollonius of Tyana, 290
 Arabian trade, 140, 281, 285
 Arachosia, 130, 198, 278
 Aramaic inscriptions, 132, 212, 213, 214, 336
 Āraṇyaka, 79
 Archaeological Survey of India, 5, 6, 294, 295, 296
 archaeological research in South Asia, history of, 4–9
 architecture
 Greek influences, 312, 317–18, 319, 338
 monumental/public, 3, 59–61, 182–3, 187, 222–51, 312–18
 rock-cut, 222, 239, 247, 281, 315–16
 stone, beginnings of, 238–9
 see also Buddhist sites; city planning; fortifications; houses; Mauryan empire; post-Mauryan period; Sri Lanka
 Arikamedu, 22, 147–8
 inscriptions, 147, 150, 178
 pottery, 147, 148, 149, 150, 169, 171
 Arogyavihāra, Pāṭaliputra, 301
 Arrian, 188
 art, 3, 337–9
 Greek influences, 258, 263, 265, 272, 324, 338
 mural, 319–21, 338
 see also Mauryan empire; post-Mauryan period; ringstones; sculpture; terracotta art
 Arthaśāstra of Kautilya, 113, 176, 187–8, 189–94, 212, 341
 on administrative structure, 117, 198, 216
 on coinage and creation of wealth, 192, 194, 209, 218–19, 220, 333
 on colonization and settlement hierarchy, 114, 120, 158, 191–2, 196, 200, 333–4
 on foreign policy, 115, 191, 193–4, 333
 on fortified settlements and city planning, 111, 114, 191, 196, 207–8, 222–30, 333
 on importance of agriculture, 109, 192–3
 on trade and regulation of weights and measures, 112, 194, 217
 see also irrigation
 'Aryan', *āryas*, 43, 75–6, 83, 157, 329
 'aryan conquest' model, 28, 90, 91, 120
 ethnic consciousness, 43–4, 45, 51–2, 53
 ideology, 51–2, 53, 79, 90, 91, 97, 121
 identification in archaeological record, 89–91, 95
 and non-*āryas*, 85, 88, 89, 91
 'pre-Vedic' and 'Vedic', 48, 50, 51, 53
 see also Indo-Aryan speakers
 Āśādhāsana, 297
 Asiatic Society of Bengal, 4–5
 Asmaka, 23, 114, 115, 134, 139
 Asoka, 17, 111, 152, 169, 243, 335
 chronology, 156, 189
 constructional activity, 225, 239–40, 252–8
 conversion to Buddhism, 151, 158–9, 212, 239, 340
 see also Asokan inscriptions; Mauryan columns
 Asokan inscriptions/edicts, 21, 100, 140, 142, 146, 239, 247
 evidence of imperial structure from, 133, 139, 141, 188–9, 198–200, 204
 evidence of use of writing, 41, 132, 210, 211–14, 216
 map of findspots, 199
 Āśrama, 339
 Atharvaveda, 86, 89, 114
 ātman, 339, 340
 Atranjikhera, 57, 62, 65, 95–6, 102, 103, 204
 settlement archaeology, 76, 82, 84, 109, 111, 112
 Avanti, 23, 110, 115, 134, 200
 Ayodhya, 58, 204, 277, 298
 see also Saketa
 Azes, king, 278, 310
 Bactria, 32, 114, 285
 proto-Indo-aryan movements, 45, 48
 see also Indo-Greeks
 Bāhmanābād, 293
 Bahāwalpur, 33
 Bahn, P., 58, 59, 61, 67
 Bairāt (Virāta), 198, 206, 303, 312
 caitya hall, 244–6, 314
 Bajaur, Kharosthi inscription, 211
 Bala, 78
 Bala Hisar, 58, 125, 127, 206, 283, 325
 Balirajgarh, 204, 208, 301
 Baluchistan, 12, 47, 48, 59, 67
 Banaras, 198, 204, 225, 263
 Hindu University archaeologists, 251
 post-Mauryan, 279, 299–300
 Banāvāsī, 23, 140, 167, 200, 206, 305, 306
 Banāwālī, 26, 29, 34–5, 78
 Banerjee, J. N., 247
 Bāngarh, 204, 302
 Bara, 78
 Barābar caves, 247, 248
 Barth, F., 43–4, 93, 94
 Bassavakulam tank, Anurādhapura, 174, 175
 Bateshwar, 102
 Bauddhāyana, Dharmasūtra of, 113
 Bāvāri, 139
 bead manufacture, 112–13, 172
 Beas-Sutlej Doab, 294, 304
 Begrām (Kapiśa), 3, 114, 280, 335
 Bengal, 18–19, 21, 67, 133, 252, 277, 281
 post-Mauryan sites, 301–2, 311
 Berar (Vidarbha), 278, 280, 306
 Besnagar, 69, 103, 110, 136
 see also Vidisā
 Bhāgavata Vāsudeva cult, 136, 249–50, 295, 304, 309, 338
 Bhagwanpura, 37, 82, 112
 Bhaja, rock-cut *caitya*, 315
 Bhan, S., 75
 Bhandarkar, R. D., 250
 Bharata, 132
 Bhāratas, 90

- Bharhut, 147, 246, 252
 post-Mauryan, 281, 309, 311, 312, 314, 318–19
- Bharukaccha (Broach), 19, 22, 141, 206
 trade links, 18, 20, 282, 300, 305
- Bhir mound, Taxila, 6, 15, 206, 207, 223, 263, 286
 ceramics, 131, 132
 chronology, 127, 131, 219
 coins, 131, 219–20
 map, 126
 houses, 231, 234–6
- Bhita, 58, 100, 107, 108, 209, 212, 223, 263
 internal planning, 59, 111–12, 223, 231, 232, 233, 236, 299
- Bhokardan (Bhogavardhana), 305, 306
- Bhukari, 80
- Bhūmaka, king, 279
- Bhūtas, 157
- Bihar, 114, 247, 299, 301, 302
- bilingualism, 42, 44–5, 49, 52, 330
- Bindusāra, 189
- Binford, L. R., 92
- Bisht, R. S., 34–5
- Black and Red Ware (BRW), 61, 65, 66, 68, 76, 102
- Black Slipped Ware (BSW), 102, 169
- Bodh Gaya, 159, 169, 254, 309, 312–13
- Bodhi tree, 159, 169, 183, 313
- Bombay, 19, 21, 206, 315
- bone arrowheads, 112, 141
- Bose, A. N., 298
- boundaries, political, 92–3, 96, 97
- Brahmagiri, 23, 140, 198, 206
see also Isila
- brahman*, 339
- Brāhmaṇas, 79, 84, 86, 87, 297
- Brahmanical sects, 339–41
 monuments of, 247–51
- brahmans (*brāhmaṇas*), 89, 91, 183, 209–10, 216, 280
 land grants to, 114, 192
- Brahmapuri, 305, 306
- Brahmaputra, 133, 302
see also Ganges-Brahmaputra delta
- Brahmeshwara temple, Śisupālgarh, 146, 229
- Brāhmī inscriptions, 133, 136, 146, 147, 150, 215, 338
 Mauryan (*see also* Asokan inscriptions), 209–12, 215, 244, 247, 263
 post-Mauryan, 309, 311–12
 in Sri Lanka, 62–3, 165, 167, 168, 169, 172, 173, 176–9, 309
- Brāhmī script, 178–9, 209–11, 212, 309, 336
 adapted for writing in Tamil, 147, 150, 178, 309
- Brihadratha, 189, 277
- Broach, *see* Bharukaccha
- Brown, P., 239
- Budaon, 297
- Buddha, 107, 110, 115, 134, 333, 340, 341
 dates of, 7, 100, 105, 156
 sites associated with, 202, 239–40, 242, 254, 300
 and Sri Lanka, 157
- Buddhism, 114, 122, 133, 139, 183, 335, 340
 establishment in Sri Lanka, 156, 158–9
see also Asoka; Buddhist sites; Buddhists texts
- Buddhists sites and monuments, 5, 15, 18, 22, 24, 146, 147, 309
 Mauryan, 222, 239–47, 254
 post-Mauryan, 21, 280–1, 283, 293, 306, 312–16, 318
 rock-cut architecture, 239, 247, 315–16
 in Sri Lanka, 170, 172, 183
see also caitya halls; monasteries; stupas
- Buddhist texts, 23, 210, 278, 298, 300
 evidence of social and political institutions in, 89, 99, 113, 114–15, 117, 188
- Buhler, G., 179, 209–10, 336
- Bulandībagh, Patna, 203, 258, 262, 270, 272
- bureaucracy, 99, 100, 109, 112, 117, 118, 119, 121
- burial practices, 49, 224, 228
see also Megalithic graves
- Burma, 159, 299
- Burrow, T., 42, 43
- Buxar, 204, 270, 272
- caitya* halls, 315–16
 apsidal, 239, 240, 241, 242, 244, 316
 circular, 244–6, 314
- Cambyses II, 130
- Campā, 109, 110, 112, 115; *see also* Champā
- camps, royal, construction of, 230
- Caṇḍālas, 224, 228
- Candragupta Maurya, 16, 121, 131, 142, 189, 198, 202, 240
 and Kautilya, 187–8, 190, 194, 334
- Candragupta II, 304
- Candraketugarh, 141, 207, 302
- Carneiro, R. L., 54
- carnelian, 64, 65, 167, 172
- Casal, J. M., 31, 147, 151
- Caṣṭana, king, 279
- caste system, *varnas*, 88, 89, 90–1, 280
 residential segregation, 223, 224, 227
- Caucasus, 45, 47, 50
- caves, 247, 281, 315–16
 epigraphs, 179, 247, 309
 painting, 338
- Cedi, 23, 115, 134, 200
- Cemetery H culture, 29, 33, 34, 35, 39, 48–9
- Central Asia, 31, 130
 Indo-Aryan movements, 45, 47, 50
 trade routes, 15, 18, 24, 280–1, 282
- Central India, 50, 84
 emergence of cities and states, 115, 123–4, 134–6
 environment, 13, 22–3
 Mauryan period, 198, 200, 206
 post-Mauryan, 303–5
- Central Place Theory, 107
- central places, 76, 78, 92–3, 96
 emergence of, 81, 86, 87, 120
 functions of, 82, 99, 113, 121
 post-Vedic, 107, 110, 117, 121
- centralization, political, 107, 109, 110, 117, 120
 ceramics, 31, 100–5, 281
 Arikamedu type 10, 147, 149, 169, 171

- black and red burnished ware, 136–41 *passim*, 155, 163, 164, 170
 fine grey ware, 164, 167, 171
 Hellenistic types, 141, 146, 147, 169, 171, 172
 red polished ware, 142, 305
 red ware forms, 102
see also Black and Red Ware; Black Slipped Ware; Cemetery H culture; Northern Black Polished Ware; Ochre Coloured Pottery; Painted Grey Ware; Red Burnished Ware; Rouletted ware
- Chakrabarti, D. K., 56, 65, 83, 84
 Chakravarti, Ranabir, 329–30, 335
 Chalcolithic sites, 57–72, 76, 104
 Champā, 204, 302; *see also* Campā
 Chandra, P., 263
 Chanhu-daro, 31, 32, 33, 36, 49, 53, 58
 Chārsada (Puṣkalāvati), 16, 57, 58, 101, 130, 131, 132, 326
 environment, 13, 14, 15
 Mauryan, 200, 206, 208, 209
 see also Bala Hisar; Shaikhan Dheri
- Chattopadhyaya, D. P., 329, 333
 Chera, kingdom, 277
 Cherry, J. F., 115
 chiefdoms, 71, 72, 93
 Late Vedic, 79, 81–2, 84–9, 99, 120, 121, 331
 transition to states, 116–17, 121
- Childe, V. G., 55, 56, 59, 63, 92, 119
 China, 279, 280, 293
 Buddhist pilgrims, 188, 252
 early cities, 111
 trade routes, 15, 18, 23, 24
- Chirand, 67, 76, 82, 90, 258, 263, 272
 Chitral valley, 15, 281
 Cholas, 148–50, 198, 276
 Cholistan desert, 8, 15, 33, 36
 Chopani Mando, 76
 chronology, problems of, 156–7, 269
 see also radiocarbon dating
- Chunar sandstone, 243, 244, 245, 246, 251–2, 258
- cities
 definitions, typology, 55–7, 207–9
 presence or absence of ‘urban’ elements during post-urban/Early Iron Age, 57–72
 see also urbanization
- city planning, 3, 183, 223–4, 227, 228, 229–31
 internal layouts, 57, 59, 111–12, 207–8, 283, 286–91
- Citraratha, 85
 Claessen, H. J. M., 122
 classical sources, 188, 304
 see also *Periplus*; Ptolemy
- climatic factors, 11, 38, 39, 53, 65, 192
 desiccation, 27, 36–7, 125, 137, 330
 Codrington, H. W., 181, 182
 coinage, 56, 97, 100
 early, 79, 105, 117, 131, 136, 142, 147
 as indicator of trade, 108, 112, 113
 introduction into South Asia, 102, 105, 113, 115, 337
- see also* Indo-Greeks; Mauryan empire; post-Mauryan period; Sri Lanka
- Colombo, 170
 colonization, 123–5
 ‘Gangetic’, 123–4, 131–2, 136, 332
 ‘Indo-Aryan’, 123
 of Sri Lanka, 157–8
 see also imperial expansion
- copper technology, 65, 71–2, 112, 212
 Craddock, P. T., 63, 193
 craft manufactures, 155, 304
 specialization, 63–4, 76, 82, 112–13
 see also Indus civilization
- Cribb, J., 105, 113, 218, 219, 220
 culture, concept of, 43, 92, 94
 cultural pluralism, 51, 52, 53
 see also acculturation model
- Cunningham, A., 5, 100, 207, 292, 294, 296, 297, 300
 Cunningham, Major General Alexander, *Archaeological Survey Reports*, 5
 The Bhilsa Topes (1854), 5
 Curzon, George Nathaniel, Marquis, 5
 Cyrus the Great, 130
- Daimabad, 58, 61, 69, 72
 Dales, G. F., 28
 Damdama, 76
 dams (bunds), 13, 23, 24, 174
daṇḍa (rod, law enforcement, element of Arthasastran state), 190, 191, 333
- Dani, A. H., 283
 Darius I, 113, 130, 132
 ‘dark age’ theory, 69–72
dāsa, *dasyu*, 48, 85, 89
 Daśaratha, king, 189, 247
 Daśārṇas, 303
 Deccan, 23, 67, 114, 123
 emergence of cities and states, 136–40
 Mauryan period, 200
 post-Mauryan period, 276, 277, 278, 279, 280, 305–6, 312
 trade routes, 20, 21, 281, 305
- Deccan College, Pune, research programmes, 7–8, 137
- Dehejia, V., 338
 Delhi, 16, 293, 295
 Demetrius I, 310
 Demetrius II, 278
 Deraniyagala, S. U., 8, 64, 153, 162, 163, 165, 166, 168, 176, 211
 Derawar, 33, 36
 Desai, D., 272
 Deva, Krishna, 100
 Devadāsī, 269
 Devānampiya Tissa, 152, 159, 172, 174, 175, 183
dhanuṣ, unit of length, bow, 217
 Dhānyakata, *see* Amaravati
 Dharanīkoṭaka, 146–7
dharma, 87, 88
Dharma-cakra, 254
 Dharmasūtra, 87, 89, 113, 114, 121

- Dhauī, Asokan edict and elephant carving, 146, 225, 258, 261, 263
- Dhavalikar, M. K., 58, 59, 60, 61, 66, 71
- Dher Majra, 78
- Dholavira, 26, 238
- Diakonov, I. M., 54
- Didarganj Yaksi, 258, 259
- diffusionist explanations, 83, 92
- Dikshit, K. N., 35
- Diodotus I, 278
- Dīpavaṃsa (Sri Lanka chronicle), 152, 156, 157, 158
- Dir valley, 15
- discs, stone, 263–5, 268–9
- Doab, *see* Ganges-Yamuna Doab
- drainage systems, 60–1
- Dravidian, 21, 46, 53, 158
- Drishadvati river, post-urban sites, 34
- dronamukha*, administrative division in Arthaśāstra, 196, 197
- durga* (fortified settlement), 190, 191, 196, 222, 227, 230, 333
- Duṭṭhagāmaṇi, king, 172, 183
- ear disc, ‘jasper’, from Prabhas Patan, 268
- Early Iron Age, *see* Late Vedic/Early Iron Age
- Early Vedic, 51
- east coast, peninsular, 13, 21–2, 140, 141–51, 200
- Eastern India, 18–19, 133
- see also* Bengal; east coast; Ganges-Brahmaputra delta
- economic factors, 99, 110, 112–13
- see also* craft manufactures; trade; wealth
- edicts (*sāsana*), 216
- see also* Asokan inscriptions
- Egypt, 12, 281
- Ekharāj*, sole ruler, 86
- Elāra, king, 172
- empire, emergence and breakdown of, 334–5
- environmental factors, 10–25, 38, 54, 65, 192
- see also* climatic factors; tectonic action
- epidemics, as possible cause of breakdown of Harappan system, 28
- Eran, 23, 58, 62, 83, 134, 206
- Erdosy, G., 4, 56, 68, 113, 202
- definition of chiefdoms, 71, 72
- discussion of ethnicity, 43–4, 51
- survey of Allahabad district, 58, 61, 75, 196
- ethnicity, 43–4, 93–5, 115
- multi-ethnic society, 51, 53, 330, 331
- see also* ‘Aryan’ (ethnic consciousness)
- Eukratides, king, 278
- Euthydemus, king, 278
- Fa Xian (Fa Hsien), 188, 252
- Ferghana, 114
- Fergusson, J., 239, 252, 258
- figurines, terracotta, 131, 142, 270, 271–2
- Finno-Ugrian languages, 42
- fire sacrifices, Indo-Aryan, 48, 91, 298
- Flannery, K. V., 122
- foreign policy, treatment in Arthaśāstra, 115, 191, 193–4, 333
- forest clearance, 108–9, 119, 330
- fortifications, 62, 69–70
- Mauryan, 207, 209, 222–3, 226
- post-Mauryan, 286, 296, 305
- pre-Mauryan, 102, 107, 109–10, 111, 136, 140, 146
- see also* *durga*; and *individual sites*
- gāma*, *see* villages
- gana*, 115, 117–18, 333
- Gandhāra*, 113, 115, 130, 131, 159, 311
- grave culture, 30, 50, 125
- Mauryan, 200, 206
- style in architecture and sculpture, 317–18, 319, 321, 323, 338
- Gangā*, *see* Ganges
- Ganges, river, 85, 107–8, 202
- Ganges-Brahmaputra delta, 13, 18–19, 141, 204, 207
- Ganges valley, Gangetic plain, 75–6, 151, 281
- Early Iron Age, 58–62 *passim*, 67–71 *passim*, 79–84, 85–6, 99
- early state formation, 99–112, 115, 119, 120, 123, 331, 332
- environment, 13, 16–18, 24, 65–6, 119, 331
- Mauryan period, 198, 200–4, 207, 208–9, 220, 222–6, 231–4, 237–8
- post-Mauryan, 274–5, 277–8, 294–302, 321–4
- settlement archaeology, 61, 81–2, 105–10, 194, 196–8
- see also* colonization (‘Gangetic’); Ganges-Brahmaputra delta; Ganges-Yamunā Doab
- Ganges-Yamunā Doab, 12, 13, 18, 75, 102, 103
- Early Iron Age cultural transformation, 66, 90, 91, 96
- environment, 16, 20, 38, 39, 65–6, 331
- Mauryan period, 204
- post-Mauryan, 274–5, 294–5
- post-urban settlements, 29, 35, 37, 38, 39, 50, 51, 65–6
- Ganjam, 146
- Ganwaria, 300
- Ganweriwala, 77, 78
- Gautama, Dharmasūtra of, 113
- Gautamīputra Sātakaṛṇi, king, 279, 280, 310
- Ghaggar river, 28, 36, 293, 294
- Ghosh, A., 3–4, 297
- Ghoshitārāma (*Ghoshitārāma*) monastery, Kausambi, 299
- Ghosundi, 309
- Girnār (Girinagara), 198, 206
- Rudradāman inscription, 189, 224–5
- Godavari river, 22, 114, 276, 279, 306
- ‘goddess’ on ringstones and discs, 265, 266, 267, 268–9
- gold, 113, 268
- Gomitra, king, 312
- Gonda, J., 84
- Gondophares, king, 278
- goruṭa*, 217
- grāma*, *see* village
- Greeks, Hellenistic world, 159, 198, 248–9
- ceramics, 141, 146, 147, 169, 171, 172

- inscriptions, 212, 214
 trade, 24, 142, 148, 151, 303
see also art; architecture; Indo-Greeks
 Gudimallam *linga* and shrine, 250–1, 317
 Gujarat, 12, 18, 19–20, 64–5, 67, 167
 post-Mauryan, 274, 277, 279, 280, 305, 312
 Gupta, P. L., 219, 220
 Gupta, S. P., 203, 238, 239, 247, 252, 258, 263, 268, 269
 Guptas, 79, 274, 294, 301
guru, 339

 Hajipur, 258
 Hakra valley sites, 33, 34, 75, 77, 78, 80, 294
 Hallur, 83
 Harappa, 11, 57, 59, 62, 63, 77, 78
 Cemetery H culture, 33, 39, 48–9
 Harappan urban system, *see* Indus civilization
 Harmatta, J., 42
 Hartley, C., 153
 Haryana, 75, 79, 80, 263
 post-urban sites, 34–5, 37, 38, 39, 49
 Hastinapura, 57, 58, 62, 84, 295
 ceramics, chronology, 95–6, 101, 102, 103, 104
 Hathial, early settlement at Taxila, 127
 Hāthigumphā, Khāravēla inscription, 142, 146, 200, 225, 309
 Heliodorus pillar, Vidisa, 136, 248–9, 304, 309
 Helms, S. W., 130
 Himalayas, 16, 17, 18, 37, 133, 159
 valleys, 20
 Hindu Kush, 16, 47, 278, 279, 280
 Hinduism, 22, 122, 183
 Hindush, 130
 Hissar, 47, 294
 Hodder, I., 92, 93
 horse, 76, 82
 sacrifice, burials, 85–6, 91
 houses, 7, 110
 Mauryan, 231–7
 post-Mauryan, 283, 285, 288–90, 295, 298, 299, 300, 303, 304–5, 306
 pre-Mauryan, 60, 111–12, 146
 Sri Lankan, 163, 164, 165–6, 169
 Hsuan Tsang, 108–9, 188, 252
 Hulas, 35, 37
 Huntington, J. C., 247
 Huviṣka, Kusana king, 279, 291, 310

 Ibbankatuva, 156, 170, 171
 ideology, late Vedic, 51–2, 53, 79, 90, 91, 96–7, 121
 see also 'Indian' ideology
 Ikṣvāku dynasty, 147, 306
 imperial expansion, 125, 191–3, 334–5
 Inamgaon, 8, 57, 104, 137
 'urban' traits, 58–64 *passim*, 66, 67, 69–70
Indian Archaeology – A Review, 100, 139
 'Indian' ideology, 'all-India' culture, 133, 332, 334–5, 338
 Indo-Aryan languages, 41–7, 52, 97, 99
 Indo-Aryan speakers, 43
 arrival in South Asia, 41–2, 44, 45–7, 123
 and Indus civilization, 28, 33, 38, 45, 48–9, 51, 52, 53
 see also acculturation model; 'Aryan'; Proto-Indoaryans
 Indo-European
 'homeland', 45–6
 languages, 41, 42, 46, 90
 Indo-Gangetic divide, 33–4, 36–7, 75, 76–9, 80–1, 103, 115, 293–4
 Indo-Greeks, 274, 277–9, 280, 282, 304, 317–18, 335
 coins, 5, 278, 294, 309, 310, 311
 occupational strata at Sirkap, 286, 288
 Indo-Iranian, 42, 46, 47, 130
 Indraprastha, 295
 Indus civilization, Harappan urban system, 5, 6–7, 34, 123, 153, 238, 293
 characteristics of cities, 57, 58, 59, 60, 62
 craft manufactures, 30, 31, 38, 48–9, 63, 112
 Early Harappan period, 125–7
 environment, subsistence strategies, 11–12, 65, 67
 features of breakdown, 29–30, 32–6 *passim*, 67–8
 Mature Harappan period, 35, 76–9
 overlap with Iron Age urbanism, 20
 possible causes of collapse, 12–13, 26–9, 45, 48, 54, 65
 script, 41, 46, 63
 seals, 31, 46, 53
 site hierarchies, 61, 76–8
 trade, 28, 64
 see also Indo-Aryan speakers
 Indus valley, 28, 47, 130, 133, 292, 293
 greater Indus system, 12, 43, 49, 282
 inscriptions, 5, 79
 Mauryan, 188–9, 198–200, 211
 post-Mauryan, 281, 309–11
 see also Asokan inscriptions; Brahmi inscriptions; Kharosthi inscriptions; Tamil
 interaction networks, interregional exchange, 77, 78, 79, 82, 93, 191, 333
 Iran, 18, 31, 45, 47, 50, 113, 130
 Iron Age, 76, 163, 170
 environmental context, 13, 18, 20, 23, 24
 Indian peninsular, 137, 140, 156, 165
 see also Late Vedic/Early Iron Age
 iron technology, 102, 155, 156, 170, 330
 craft specialization, 82, 112
 impact on agriculture, 65–6, 99, 108, 112, 119
 indigenous origin of smelting?, 83–4
 introduction of, 39, 65, 71, 76, 137
 iron artefacts, 112, 136, 137, 140, 141
 irrigation, 15, 23, 54, 146, 189
 Kautilya's recommendations for, 193, 224–5, 228
 see also dams; Sri Lanka
 Irwin, J., 238–9, 252
 Isila, 200, 305, 306
 see also Brahmagiri

 Jabalpur, 23, 134, 206

- Jaffna peninsula, 170, 171
 Jainism, Jain sources, 115, 146, 258, 295, 309, 316, 340
 Jaipur, 20, 206
 Jakhra, 62, 70, 82, 109
 Jalandhar, 294
 Janaka, king, 89
 Janamejaya, 132
janapada, 86, 115–19, 187, 190–1, 195–6, 200, 206, 332–3
 janapada nivesa, 158, 191, 192, 196
 naming of, 97, 121
 see also *mahajanapada*
 Jarrige, J.-F., 38, 58
Jātaka, 114, 297, 299, 305
 Jaugada (Samāpā), 146, 198, 200, 207, 208, 302
 Jayaswal, K. P., 333
 Jayavāpi (irrigation tank), Sri Lanka, 159, 174
 Jhangar culture, 36, 39
 Jhukar culture, 29, 31, 33, 34, 39, 49
 Jhusi, 107, 204, 263
 Jivaka, the physician, 114
 Jivakarama monastery, Rajgir, 246
 Jones, Sir William, 4–5
 Jorwe culture, 36, 50, 60, 62, 63, 71
 Joshi, J. P., 37
 Joshi, M. C., 56
 Judeirjo-dara, 11–12
 Junagarh, 19, 198, 206

 Kabul, 15, 278, 280, 282
 Kacch, 32, 114
 Kadphises I, 279
kahāpana, see *kārsāpana*
kākimī, copper coin, 219
 Kalibangan, 11–12, 48, 58, 62, 67, 104
 Kalinga, 111, 142, 200
 Kalingapatnam, 22, 146
 Kalsi, 133
 Kalyan, 18, 19, 21, 22, 23, 206
 Kamboja, 114, 115, 198, 200
 Kanara, 280
 Kandahar, 13, 14, 16, 206, 208
 fortifications, 127–30
 inscriptions, 132, 198, 212, 214
 Kangle, R. P., 188, 189
 Kanheri, *caitya* hall, 316
 Kaniska, king, 7, 279, 291, 310, 311
 Kanpur District, survey of Early Historic sites, 61, 68, 81, 110, 196
 Kantarodai, 156, 158, 171, 172
 Kanvas, 274, 277, 278, 279
 Kapilavastu, 204, 208, 209, 242, 300–1
 Kapiśa-Begram, 3, 114, 280, 335
 Kara, 106, 107
 Karakoram, 10, 12, 15, 280, 291
 Kārdamakas, 279
 Karle, rock-cut *caitya*, 316
karma, 339, 340
 Karnataka, 23, 64, 136
 emergence of cities and states, 139, 140, 167
 Mauryan, 198, 281
 post-Mauryan, 305–6
kārsāpana, silver coin, 279, 295
karvaṭika, 196, 197
 Kashgar, 15, 279
 Kashmir, 133, 279, 282, 291
 Kasi, 110, 115, 220
 Kās'ikā Vritti, 216–17
 Kāśīputra Bhāgabhadra, king, 304
 Kathiawar, 280
 Katragarh, 301
 Kaundinyapur (Kundinpur), 305, 306
 Kausāmbī, 57, 115, 198, 204, 300, 312
 chronology, 101, 102, 103, 104
 fortifications, 70, 106, 111, 223, 226, 298–9
 layout, 111, 208
 location, environment, 82, 107, 108–9, 197
 Mauryan architecture and art, 231, 263, 265, 267, 272
 post-Mauryan, 277, 298–9
 size, 58, 69, 106, 208
 Kauṭilya, see Arthaśāstra
 Kavaśa Ailūśa, 89
 Kāverī river and delta, 13, 22, 148, 150, 276
 Kāverīpattanam, 22, 150
 Kayatha, 103
 Keesing, R. M., 56
 Keith, A. B., 51
 Kelaniya, 170, 171
 Keralaputras, 198
 Khalaua, 103
 Khandagiri hill, 146, 229
 Khāraṇa, king, 275, 277
 inscriptions, 142, 146, 200, 225, 309
 Khare, M. D., 249
 Kharoṣṭhī inscriptions, 211, 212, 251, 311, 312, 336
 Khokra Kot, 294
 Khotan, 279
 Khyber Pass, 15, 282
 kingship, see leadership, kinship; monarchies
 Kluckhohn, C., 56, 58
koḍrava, paspalum scrobiculatum, 193
 Kohlapur (Brahmapuri), 305, 306
 Koldihwa, 67, 76
 Kondapur, 23, 139, 206, 305, 306
 Konkan, 280
 Kopbal, 140, 198, 206
kośa (treasury), as element of state in Arthaśāstra, 190, 191, 333
 Kosala, 115
 Kosambi, D. D., 65, 219, 329, 337
 Kot Diji, 58, 127
 Kotasur, 301
 Kotla Nihang, 78
 Kramrisch, S., 222
 Krishna (Kriṣṇa), Sātavāhana king, 279
 Krishna river and delta, 13, 22, 146, 167, 276, 279
kosā, unit of distance, 217
 Kṣtrapas, 304, 306, 310
 Kṣaharāta dynasty, 279
ksatriya, 88, 91, 97, 117, 121, 340
 Kudwala, 78

- Kumrahar, Pataliputra, 217, 258, 272
 pillared hall, 60, 202–3, 236, 237–8, 240, 260
 Kundinpur (Kaunḍinyapur), 305, 306
 Kuru, 115, 118
 Kurukṣetra, 80, 86, 294
 Kurus, 90
 Kuṣānas, 279, 282, 294, 311, 319, 337
 cities, 290, 296
 coinage, 294, 310, 311
 extent of empire, 274, 280, 291, 293
 Kuśinagara, 115
- Lal, B. B., 58, 62, 102, 142, 295
 Lal, Makkan, 4, 61, 66, 68, 75, 81, 99, 110, 196
 Lal Qila, 76
 land ownership, 89, 114, 121, 192
 language replacement, 42, 44–5, 49–50, 52, 97
 see also bilingualism; philological evidence
 lapis lazuli, 64, 123, 167, 172
 Larick, R., 94
 Late Harappan, 29, 32, 78
 see also post-urban period
 Late Vedic/Early Iron Age, 39, 51, 52, 57–72,
 79–97, 330–1
 settlement patterns, material culture, 61, 79–84,
 86, 91–6, 99
 see also chiefdoms; literary evidence
 latrines, 236–7
 Lauriya Nandangarh, Asokan column, 253, 254, 268
 leadership/kingship, late Vedic, 85, 86–7, 99, 121
 post-Vedic, 116–17, 118, 121, 122, 190, 332
 legal code, post-Vedic, 116, 121
 see also Dharmasutras
 Licchavis, 8, 117, 118, 301
 literary evidence, 339, 340, 341
 for early historic state formation, 113–19
 for Late Vedic/Early Iron Age, 79, 83, 84–9,
 90–1, 97, 99, 330–1
 for Mauryan period (*see also* Arthashastra),
 187–9, 216
 for post-Mauryan period, 296, 297, 299, 302
 for rise of cities in Sri Lanka, 152, 156–9, 169,
 172, 183
 see also Buddhist texts; classical sources
 Loebanr, 67
 Loha Pāsāda, 183
 Lohanipur sculptures, 258, 260
 Lokāyata sect, 340
 Lomas Rishi cave, Barabar hills, 247, 248, 249
 Lothal, 32, 58, 59, 62, 67
 Lumbini, 210, 239, 251, 254
 Lundi Nala, 14–15, 290
 Lurewala, 57
- Macdonnell, A. A., and A. B. Keith, *Vedic Index of
 Names and Subjects*, 84, 86, 89
 Mādhavpur, 139–40, 206, 208
 Madhurā, 158
 Madhya Pradesh, 134, 198, 200, 269, 303–5
 Madras, the, 292
 Magadha, 91, 110, 114, 115, 118, 202, 207, 272
 Mauryan rule, 158, 187, 188, 198, 200
 Nanda rule, 142, 217, 334
 post-Mauryan, 277, 279
 ‘Magaha, son of Tisa’ (inscription), 178–9
 Maghas, 298
 Mahā stupa, Mahā Thūpa, at Anurādhapura, 159,
 183
 Mahābhārata, 292, 295, 303, 309, 341
 Mahabodhi tree and shrine, 159, 169, 183, 313
 Mahadaha, 76
 Mahāgāma, 172–3
 Mahagara, 67, 76
 mahāgrāmas, 114
 mahājanapadas, 115, 116, 134, 139, 195, 200, 219,
 331
 Mahāmeghavāhanas, 335
 Mahānadi delta, 13, 21, 22
 Mahānāga, 172
 Mahānāgahula, 173
 Mahāparinirvāṇa of Buddha, 156, 158, 242
 proposed date of event, 105
 Maharashtra, 50, 136, 159
 Chalcolithic sites, 61, 71
 emergence of cities, 139, 140
 environment, 23, 36, 38
 post-Mauryan, 278, 279, 280, 281, 305–6
 Mahāsthāngarh, 204, 208, 222–3, 224, 277, 302
 Brahmi inscription, 133, 188, 198, 212, 215
 Mahātīttha, 172
 Mahāvamsa (Great Chronicle of Sri Lanka), 152,
 156, 158, 159, 169, 172, 174, 183
 Mahāvīra, 339, 340
 Mahaweli irrigation project, Sri Lanka, 175
 Maheth, 300
 see also Sravasti
 Mahinda, 159, 181, 183
 Mahiṣa, 159
 Mahishmati (*Mahiṣmatī*), 300
 Makkalī Gosāla, 340
 Mālavas, 118, 333
 Mallas, 115, 117
 Mallory, J. P., 42, 44–5
 Malwa, post-Mauryan, 274, 277, 279, 280, 303
 Manjhi, 103
 Mansehra, 133
 Mantai, 13, 153, 171, 172
 manuscripts, palm-leaf, 179
 Marshall, Sir John Hubert, 5, 7, 79, 244
 excavations at Bhita, 100, 108, 111, 209, 231
 excavations at Taxila, 131, 219, 231, 286, 288,
 290, 318
 Māsaka, bean, unit of weight, 218
 Masaon, 204
 Masarh, 258
 Maski, 23, 140, 164, 198, 206
 material culture concept, challenges to, 92–4
 Mathurā, 69, 82, 96, 102, 110, 111, 112, 282
 Mauryan, 204, 263, 271, 272
 post-Mauryan, 275, 278, 279, 295–6, 311, 319,
 322, 325
 Matsya, 115
 Mātsya-nyāya, 115, 332
 Maues, king, 278

- Maurayan columns, Asokan pillars, 239–40, 241, 242, 244, 251–8
- Maurayan empire, 57, 79, 96, 99–100, 187–221, 281, 282
- architecture, religious, 238–51
 - architecture, secular, 222–38
 - art, sculpture, 222, 251–73, 281, 338
 - chronology, 189
 - cities, provincial capitals and administrative centres, 16, 134, 136, 140, 141, 142, 204–9
 - coinage, 187, 218–21, 311, 337
 - demise of, 119, 274, 277, 279, 335
 - imperial expansion, 125, 133, 147, 151, 191–4, 334
 - imperial structure and settlement hierarchy, 194–204
 - social and political institutions, 189–94
 - sources for, 187–9, 198–200, 216
 - trade and regulation of weights and measures, 194, 216–18
 - use of writing (*see also* Brahmi inscriptions), 187, 209–16
 - village settlements, 209
- Medhi*, drum of stupa, 244
- Mediterranean
- cultural interaction with South Asia, 324, 340
 - trade contacts, 24, 112, 140, 281, 305
 - see also* Greeks; Romans
- Megalithic graves, 137, 140, 155, 164, 170–171, 179
- Megasthenes text, 188, 216, 295
- account of Pātaliputra, 110, 200, 202, 203, 223, 272
- Mehrgarh, 12, 31–2, 46, 47, 48, 49
- Menander, 211, 278, 283, 292
- Mesolithic sites, 76, 153, 172
- Mesopotamia, 12, 26, 28, 64, 81
- metal working, 63–4, 193
- see also* copper; gold; iron
- Mihintale, 179, 183
- mining, 63–4, 193
- ministers (element in Kautilya's state theory), 190, 332
- Mīrāth (Meerat), 295
- Mirzapur, 18, 21
- Mishra, V. K., 203, 237
- Mitathal, 29, 34, 78
- Mithridates I, 278
- Mitra, D., 239, 243–4
- mitra* (ally, element of Kautilya's state theory), 190, 191, 333
- Mitra kings, 298
- moats, 140, 146, 167, 172, 191, 207, 222–3, 224
- Mohenjo-daro, 11–12, 57, 59, 60, 62, 77
- demise of, 28, 49, 78
- monarchies, 86–7, 116–17, 118, 190, 332
- monasteries, Biddhist, 146, 170, 231, 239, 240, 246, 280–1
- monsoon, 16, 19, 22
- mother goddess, 268, 271, 272
- Mousikanos, kingdom of, 292
- Mughal, M. R., 8, 31, 33, 36, 75, 76–7, 80
- mūla nagara*, *see nagara*
- Mundigak, 130
- Nāga cult, 295
- Nagal, 141
- nagara*, *mahānagara*, 114, 194–5
- nagaraka*, 115, 195
- Nagarahāra, 132, 206
- Nāgarī, 250, 303, 316
- Nāgārjunakoṇḍa, 22, 305, 306, 307, 317
- Nāgārjunī caves, 247
- Nāgas, 157
- Nagda, 62, 83, 84
- Nahapāna, king, 279, 310
- Namazga, 47
- Nanaghat inscription, 279
- Nandas, 142, 190, 200, 217, 225, 334, 337
- Naradakha, house of, Charsada, 283, 285
- Nārāyana Vātūkā*, 250
- Nārāyana, Viṣṇu*, 250
- Narmadā river, 19, 20, 134, 136
- Nāsik, 279, 315
- Nāstika*, 340
- National Physical Laboratory, Ahmedabad, 8
- Nauli, 78
- Naushahro, 26
- Navdatoli, 57, 59, 60, 62, 64, 67
- Nāyanikā (Nāganikā), 279, 280
- Nearchus, 293
- negama*, *see nigama*
- Neolithic sites, 67, 76, 125
- Neolithic-Chalcolithic, 153
- Nepal, 8, 133, 210, 300–1
- Nigali Sāgar, Asokan inscription, 240
- nigama*, 114, 195, 196, 209
- Niganthas, Nirgranthas, 183, 340
- Noh, 103
- non-violence, 332, 340, 341
- Northern Black Polished Ware (NBP), 80 n.4, 97, 131, 268, 272, 293, 326
- chronology, 80, 100–5, 219, 269
 - 'early', 102, 103, 105, 110, 112, 113
 - 'late', 102, 105
 - 'mid', 102, 104, 105, 111
 - occurrence in Ganges valley, 61, 66, 68, 100, 101, 102, 217, 243
 - occurrence outside Ganges valley, 133, 134, 136, 137, 139, 142, 147, 249, 291, 306
- northwestern borderlands, 50, 85, 115, 220
- early cities, 125–33
 - environment, 13–16, 282
 - Maurayan period, 151, 200, 206, 211, 212
 - post-Maurayan period, 274, 278, 280–1, 282–91, 317–18
- Nuwarawewa irrigation tank, Sri Lanka, 174, 175
- Ochre Coloured Pottery (OCP), 29, 58, 76, 293
- oligarchies, 84, 85, 117–18, 119
- Orissa, 21, 200
- early cities, 111, 142
 - Maurayan period, 198, 200, 207, 258, 277, 281
 - post-Maurayan, 275, 302–3, 309, 315–16
- Oxus, 12, 277, 278, 280
- Pabhosa cave inscription, 297

- Padmāvati, 304
 Painted Grey Ware (PGW), 37, 51, 71, 72, 80 n.4, 95
 chronology, 80, 102, 103
 designs, 83, 95–6, 97
 disappearance of, 97, 115
 distribution of sites, 34, 36, 293
 settlements, characteristics of, 58, 61, 62, 66, 68, 70, 86, 112
 Paithan, *see* Pratiṣṭhāna
 Pakistan, 50, 153, 167
 archaeological research, 6, 75
 see also northwestern borderlands
 Pali Canon, Buddhist, 99, 113, 194, 195
 paṇa, silver coin, 218 *see* Kārsāpana
 Pancala, 109, 115, 118, 312
 Pāṇḍavas, 158, 295
 Pandu Rajar Dhibi, 67
 Paṇḍukābhaya, king, 159, 174, 175, 183
 Paṇḍuvāsudeva, king, 158
 Pāṇḍya kingdom, 158, 181, 182, 277
 Pāṇini, *Aṣṭādhyāyī*, 216, 217, 248, 336, 337
 evidence of settlement patterns and political organization in, 113, 114, 115, 117, 121, 333
 Panis, 48, 85, 90
 Pāradas, 198
 Paribrājakas, 183
 parikhā, moat, 167, 222
 Parpola, A., 42, 46, 48, 50–1
 Parthians, 274, 278–9, 280, 282, 286, 294
 Patala, 293
 Pāṭaliputra (Patna), 8, 195, 301, 324
 capital of Mauryan empire, 57, 110, 158, 187, 198, 200–4, 334
 pillared hall, 60, 202–3, 236, 237–8, 240, 260
 rampart, 111, 202, 203, 223
 Pātan, Nepal, 133
 Patañjali, 295
 Patna, 8, 200, 202
 see also Pāṭaliputra
 paṭṭana (port, harbour), 195
 Pauni, 312, 313–14
 Pawaya (Padmāvati), 304
 Peddavegi, 305, 306
 Peer Polity Interaction model, 93
 see also interaction networks
 Peninsular India, 114, 142, 151
 Iron Age, 13, 22–3, 137, 155
 see also Deccan; east coast; South India; west coast
 Pennsylvania University excavations, Sri Lanka, 170, 171
 Periplus Maris Erythraea, 139, 282, 304, 306
 references to east and west coast sites, 21, 22, 24, 141, 305
 Persia, *see* Iran
 Persian Gulf trade, 140, 281, 285
 Peshawar, 15, 282, 283
 philological evidence, 41–2, 46
 see also bilingualism; language replacement
 Philostratus, Flavius, 290
 Piggott, S., 31, 63, 296
 Piprahwa, 104, 212, 268, 300
 Pirak, 32, 38, 39, 83
 urban traits, 57, 58, 59, 60–1, 63, 65, 66, 67
 Pliny, 295
 Pokharna (Puṣkarana), 301–2
 political organization
 literary evidence, 113–19
 political units, 92–3, 96, 97, 99, 331–5
 see also central places; chiefdoms; *janapadas*;
 state formation
 Pomparippu, 164, 170
 population growth, 107, 109, 330, 331
 and rise of cities and states, 54, 58, 67–8, 69, 99, 119–20
 Possehl, G. L., 29, 30, 32, 36, 66, 75
 post-Mauryan period, 274–326
 architecture (*see also* houses), 312–18
 cities, 281–309
 coinage, 280, 281, 303, 306, 309, 310, 311–12, 337
 political history, 274–81
 sculpture, arts, 281, 318–24, 325
 use of writing, 281, 309–12
 see also literary evidence; trade
 post-urban period (c. BC 2000–800), 29–40, 43, 47–53, 69–72, 330
 early, 39, 47–8, 49, 51, 52
 late, 39, 51, 52
 middle, 39, 49–50, 52
 population growth, 67–8, 69–70
 sites, 31–2, 58–62
 specialized crafts, 63–4
 subsistence strategies, 65–7
 trade, 64–5
 transition to Early Historic, 69–70
 ‘urban’ traits, 57–68, 69
 use of writing, 62–3
 Poster, G. A., 271–2
 Prabhas Patan, 32, 268
 Prahādpur, 102, 209
 prākāra, wall, 223
 Prakāsh, 61, 84, 137, 138
 Prākṛit, 210, 216, 336
 inscriptions, 178, 212, 309
 prakṛit, elements of Arthśāstra state, 190
 Pratiṣṭhāna (Paithan), 23, 324
 Mauryan, 206, 208
 post-Mauryan, 139, 280, 300, 305, 306
 priangu, panic seed, 192
 Proto-Indoaryans, 42, 43, 45, 47, 48, 52
 Ptolemy, 279, 295, 302, 304, 306
 Puḍanagala (Puḍranagara), 133, 198
 Pul-i Darunta, Aramaic inscription, 213
 Puṇḍras, 114
 Pune, 279, 315
 Punjab, 67, 79, 85, 125, 330
 post-Mauryan, 274, 277, 278, 292
 post-urban sites, 29, 33–5, 37, 38, 39, 49, 51
 Purana Qila, 263
 Purānas, (a) texts; 188, 295, (b) ancient coins, 219
 pura, 114, 195
 purohita, 88, 91, 117
 Purus, 85, 90

- Puruṣa Sūkta*, 51
 Purushapura, 282, 283
 Pushkarana (Pokharna), 301–2
 Pushyamitra Sunga, 277–8
 Puṣalāvati, *see* Charsada
pustaka (record books), 216
puṭabhedana (riverside wharf/trading area), 195
- Questions of Milinda, The*, 278, 292, 295
 Quetta, 32, 47
- radiocarbon dating, 8, 100, 101
 Raikes, R. L., 28
 Rairh, 112, 303
rājā, ruler, 190
rājadhāni, 194–5
rājanya, 87, 91
 Rajasthan, 19, 20, 64, 67, 78, 293
 Mauryan, 198, 206, 250
 post-Mauryan, 274, 278, 279, 303
 post-urban period, 34–5, 38, 63–4
 Rājasūya, 88
 Rājavalīya, 152
 Rajghāt, 110, 231, 265, 299
 chronology, 101, 102, 103
 Rājgīr (Rājagriha), 69, 82, 115, 208, 242, 246,
 247, 300
 capital of Magadha, 110, 202, 204
 fortifications, 109, 111, 207, 223, 225, 301
 stone relief, 265, 266
 Rajpipla, 64
rājya, 115, 116–17, 332
 Rakhigarhi, 78
 Rākhasas (demons), 157
Rāmāyana, 296, 297, 298
 Ramgarh cave inscription, 269
 ramparts, *see* fortifications
 Rampurva bull capital, 257, 260
 Rangarajan, L. N., 189, 193
 Rangmahal, 294
 Rangpur, 29, 32, 37, 67
Rāṣṭra, Kingdom, 190
 Ravi, river, 90, 292
 Ray, S. C., 219
 Raychaudhuri, H. C., 279
 Red Burnished Ware, 58, 125–7, 130
 Rehman Dheri, 58, 62, 63
 religious complexes, 239–51
 location outside cities, 224, 225
 see also monasteries; stupas
 religious sects, emergence of, 339–41
 Renfrew, C., 92, 93, 115
 on emergence of urbanism, 54, 58, 59, 61, 67
 on Indo-European origins, 42, 45–6
 Rennell, J., 200
 rice cultivation, 38, 134, 176, 193
 and rise of cities, 65, 66–7, 140, 330, 331
 Richards, F. J., 134, 329, 331
 Rigveda, 43, 48, 53, 83, 97, 114
 composition, chronology, 51, 52, 79
 evidence of political and social organization in,
 85, 86, 89–90, 117, 118, 120, 121, 122, 330
 ringstones, 263–5, 268
 ringwells, terracotta, 131, 136, 236, 293, 295, 300,
 302
 rituals, Vedic, 87, 88, 99, 117, 121
 Rojdi, 32
 Romans, 140, 150
 stylistic influences, 324, 338
 trade contacts, 142, 148, 151, 280, 293, 302,
 303, 335
 Rouletted ware, 140, 147, 149, 167–9 *passim*, 171–3
 passim
 as indicator of trade, 64, 141, 142, 303
 Roy, T. N., *The Ganges Civilization*, 4, 204
 Rudradāman I, 279
 inscription, 189, 224–5
 Rudradāman Simha I, 310
 Ruhuna, 172, 173
 Rupar, 78, 101, 103, 212, 263, 293, 294
- sabhā*, 117–18
 Saheth, 300
 see also Sravasti
 Śahni, D. R., 245
 Śaivism, Śaiva architecture, 247, 250–1, 316–17, 341
 Śākala, 292
 Śakas, 275, 278, 279, 286, 311, 335
 coinage, 310, 311
 see also Western Satraps
 Sāketa, 115, 298, 300
 see also Ayodhya
śālī, variety of rice, 193
Samana, (*Sramaṇa*), 183
 Samanalawewa dam project, 170
 Samāpa, *see* Jaugada
 Sambhar, 112, 303
saṃgrahana, administrative division in Arthashastra,
 196, 197
 Samhitā, 51, 79, 86, 87
 Saṃkāsya, *see* Sankissa
 Sanchi, 5, 225, 242, 244, 279–80, 309, 318–19, 321
 Asoka pillar, 240, 251
 caitya hall, 240, 244
 stūpa, 240, 281, 304, 312, 313, 338
saṅgha, *see* *gaṇa*, 190, 333
 Sanghamitta, 169
 Sankalia, H. D., 7, 58, 62
 Saṅkarṣaṇa, cult of, 250, 309
 Sankissa (Saṃkāsya), 204, 208, 263, 297, 300
 Sannathi, 206, 208, 305, 306
 Sanskrit, 86, 210, 216, 336
 inscriptions, 309, 311
 Santoni, M., 58
 Sapalli Tepe group, 47
Saptāṅga, seven elements of State, 190
 Sarai Khola, 125
 Sarai Nahar Rai, 76
 Sarasin, P. and F., 153
 Sarasvati river, 85
 drying up of, 12–13, 28, 34, 36–7, 38, 90
 sites, 29, 33–4, 75, 77, 78
 Sarma, I. K., 251
 Sarnath, Deer Park, 198, 225, 240, 241, 254, 312

- Asoka pillar, 240, 241, 244, 254, 255, 256
caitya hall, 240, 241, 244
 Dharmarajika stupa, 240, 241
 early stone sculpture, 240, 258, 260, 262
- Sarvatāta, king, 309
Śāsana, edict, 198, 216
śaṣṭhika, variety of rice, 331
 Sātakarni, 279–80, 310
 Satanikota, 305, 306, 308
Śatapatha Brāhmaṇa, 297
 Sātavāhanas, 139–40, 147, 276, 278, 279–80, 281, 306
 coinage, 140, 280, 310, 312
 see also Andhras
- Satiyaputras, 198
 Satrapies, 130
 Satwali, 80
 Satyakāma Jābāla, 89
 Saurashtra, 75, 335
 Mauryan period, 19, 198, 268
 post-urban phase, 29, 32, 37, 38, 50
- scripts, 62–3, 309, 311, 336
 see also Aramaic; Brahmi; Kharosthi
- sculpture, stone
 iconography, 254, 265, 268
 Mauryan, 187, 222, 238, 239, 240, 251–69
 post-Mauryan, 312, 313–14, 318–19, 320, 321
 stylistic influences, 258–63
- Scylax, 292
 Scythians, 260, 275, 282, 294
 see also Sakas
- seals
 Harappan, 31, 46, 53
 Mauryan period, 102, 136, 178, 179, 212, 216, 297
 of post-urban period, 31, 32, 33, 63
- Seleucids, 274, 278, 280
 Seleucus, king, 188, 198
 Semthan, Kashmir, 291
 Seneviratne, S., 155–6
 Service, E. R., 122
- settlement
 archaeology, 92–3, 196
 hierarchies, 56, 61, 77–8, 81, 87
- settlement patterns
 Early Historic, 61, 105–10, 113, 114, 117, 120
 Early Iron Age, 61, 79–82, 86, 99
 post-urban, 30–9, 75–9
 Sri Lankan, 170
- setu-bandha*, irrigation tanks, 224
 Shaffer, J. G., 35, 54, 56, 59, 60, 61, 75, 79
 Shah-ji-ki-dheri stupa, 283
 Shaikhan Dheri, 8, 283–5
 Shamlaji, 305
 Shapur I, 279
 Sharma, G. R., 70, 298
 Sharma, J. P., 118
 Sharma, R. S., 4, 56, 329, 330, 331
 Shastri, H., 297
 Shortughai, 64, 123
 Saikot, 278, 292
 Sibri, 32, 47
- Silk Route, 15, 280
Śilpa śāstra, 229, 231
 Simuka, Satavahana king, 279
 Sind, 34, 114, 125, 130, 292–3
 post-Mauryan period, 274, 278, 279, 280, 293
 post-urban phase, 29, 31–2, 36, 38, 39, 49, 125
- Singh, S. B., 109
 Sinha, K. K., 101
 Siṅhapura, 158
 Sipra river, 304
 Sircar, D. C., 198, 212
 Sirisavatthu, 158
 Sirkap (Taxila), 6, 15, 127, 286–90, 318
 maps, 126, 287
- Sirsa, 294
 Sirsukh (Taxila), 286, 290–1
 Sistan, 278
 Śiśupālgarh (Tosali), 22, 142–6, 198, 207, 208
 fortifications, 70, 142, 144, 223
 internal planning, 59, 111, 143, 208
 post-Mauryan, 302, 303
 surroundings, 224, 225, 229
- Siswal, 78
 Śiva, *see* Saivism
 Skalnik, P., 122
 Smith, V. A., 238, 279, 292
- social organization
 Late Vedic, 84–9, 90–1, 121, 331
 post-Harappan, 71, 76, 330
 post-Vedic, 111–12, 117, 121–2
- Socotra, 293
 Sohgaura, 103, 188–9, 212, 215, 263
 Son Bhandar cave, Rajgir, 247
 Sonkh, 7, 96, 102, 112, 231
 Sonpur, 67
 Sopāra (Suppāra), 19, 20–1, 141, 198, 206
 South India, 11, 22, 147–50, 276, 277, 317
 Spate, O. H. K., 293, 294
 Spooner, D. B., 202–3, 237, 238
 Śrautasūtras, 86
 Śrāvastī, 110, 115, 139, 254, 300
 chronology, 101, 102
 Jetavana monastery, 225, 240, 300
 Mauryan, 204, 208, 224
- Śrī (Fortune), goddess, 268, 324
 Śrī Lanka, 11, 13, 23–4, 152–83, 207
 archaeological background, 8, 153–6, 162–73
 architecture and art (*see also* houses), 182–3, 225, 243
 chronicles, 152, 156–9, 169, 172, 183, 188
 coinage, 167, 169, 172, 173, 180–2
 Dry Zone, 23–4, 66, 173
 irrigation works, 13, 24, 159, 170, 171, 172, 173–6
 trade, 23, 166–7, 172, 305
 use of writing (*see also* Brahmi inscriptions), 62, 176–9, 309, 336
 see also Buddhism
- Śringaverpur, Śringaverapur, 76, 82, 102, 106
 state formation, states, 99–100, 331–4
 causes of, 119–20
 chronology of, 100–5

- state formation, states (*cont.*)
 and dissolution of tribal and ethnic groups, 95, 333–4
 Kautilya's theory of state, 190–4, 332–3
 literary evidence for, 113–19
 transition from chiefdoms, 116–17, 121
- status distinctions, 76, 88, 89, 96–7
- Stein, A., 291
- sthāniya*, administrative division in Arthaśāstra, 192, 196, 197, 209
- stone quarrying and working, 251–2
 beginnings of stone architecture, 238–9
see also sculpture
- Strabo, 188
- stūpa, 183, 240, 242–4
 post-Mauryan, 280–1, 306, 312–14, 318
- styli, 62–3
- Subhgasena, king, 278
- subsistence strategies, 65–7
- Sudāma cave, Barabar hills, 247, 248
- sūdra*, 88, 90, 91, 120, 192
- Sūgh, 102, 294
- Sūnet, 294
- Śuṅga period, 119, 337, 341
 architecture, 312, 313
 cities, 102, 136, 303, 304
 political history, 274, 277–8, 279, 335
 terracotta art, 142, 302, 321–4, 325
- Suppāra, *see* Sopara
- Śūrasenā, 115, 311
- Surkotada, 32, 58, 59, 62
- Sūrpāraka, 300
- Suvarṇagiri, 198, 200, 206
- svāmī*, ruler, as element of Kautilya's state, 190
- Swat, 15, 67, 125, 281, 283
- systems theory, 54–5
- taḍāka*, *taḍāga*, tank, reservoir, 225
- Tagara (Ter), 23, 139, 206, 305, 306
- Taittirīya Āraṇyaka, 114
- Tajikistan, 47
- Tambapanni, *see* Tāmraparṇi, 158, 174
- Tamil, 178, 336
 inscriptions, 147, 150, 309
- Tamluk, 18, 19, 141, 142, 207, 301, 302, 325
- Tāmra Nālā, 14–15, 127, 131, 286
- Tāmraparṇi, *see* Tambapanni, 198
- Tata Research Institute, Bombay, 8
- Tatan, Ratan, 202
- taxation, 117, 121
- Taxila, 110, 114, 136, 249
 chronology, 102, 105, 130–2, 219
 coins, 105, 113, 217, 221, 309, 311
 Dharmarajika stupa, 225, 317–18
 environment, 13, 14–15, 16
 Hathial settlement area, 126, 127, 286, 288, 295
 Jandial temple, 317, 318
 Mauryan period, 198, 200, 206, 207, 208, 219, 234–6
 post-Mauryan, 278, 279, 285–91, 326
 Red Burnished Ware settlement, 58, 125–7
 ringstones, 263, 264
- trade links, 282, 285, 299, 300
see also Bhir mound; Sirkap; Sirsukh
- technological change, 119, 151
- tectonic action, 10, 17, 28, 33–4, 37, 53, 65, 78
- Teri (sand dune) sites, 153
- terracotta art, 131
 Mauryan, 142, 269–72, 281
 post-Mauryan, 142, 294, 321–4, 325
- thāh*, *shāh*, 131
- Thapar, Romila, 113, 117, 119, 176, 193, 330
From Lineage to State, 4, 189, 329
- Thar desert, 20, 36
- Thomas, Saint, 278
- Tilaura Kot, 223, 301
- time, measurement of, 217
- Tissa Mahārāma, 13, 171
- Tissawewa tank, Sri Lanka, 172, 174, 175
- Tosali, *see* Sisupalgarh
- trade, trading networks, 15, 20–1, 22
 as criterion for urbanism, 54, 57, 64–5
 Early Historic, 64, 99, 108, 113, 121, 142
 Harappan, 28, 30, 48, 64
 Kautilyā on, 194
 maritime, 23, 24, 140–1, 148, 151, 305
 post-Mauryan, 281, 282, 296, 299, 300, 303, 304
 post-urban, 64–5
see also Sri Lanka
- tradition, evidence of, 99, 100, 156–9
- treasury (*kosa*), as element of Kautilya's state, 190, 191, 333
- tribal societies, 117–19, 190
 breakdown of, 333–4
- Tripuri, 23, 110, 134, 206
- trough furnaces, 168
- Tulamba, 292
- Turkestan, Chinese, 280, 281
- Udayagiri hill, Sisupalgarh, 146, 229
- Udāyin, king, 202
- Uddālaka Āruni, 339
- Ujjain, 23, 69, 84, 112, 115, 134–6, 208
 chronology, 101, 103
 fortifications, 70, 109–10, 111, 135
 Mauryan, 136, 198, 200, 206, 212
 post-Mauryan, 279, 300, 304–5, 312, 335
- Upanishads, 79, 86, 339
- Upatissa, 174
- Uraiyur, 22, 150
- urbanization
 causes of, 54–5, 124–5
 features of early Indian, 332–4
see also cities
- Uttar Pradesh, 294, 299, 300
- Ūzbeqistan, 32, 47
- Vadigawewa, 170
- Vaiśālī, 69, 101, 110, 117, 202, 299
 architecture, 231, 242, 243
 art, sculpture, 212, 217, 254, 263, 267, 268, 272
 post-Mauryan, 301
- Vaiṣṇavism, Vaiṣṇava architecture and art, 247–50, 316–17, 338, 341

- vaiśya*, 88, 91, 121
 Vajjian confederation, *see* Vriji
vāpi, *vāva*, *vāva*, tank, 176
vāpra, rampart, 167, 222, 223
Vārānaśī, *see* Banaras
varnas, *see* caste system
 Vaśiska, Kusāna king, 279
 Vāsiṣṭhīputra Pulamāvi, 280
 Vāsīthi, 280
vāstuka, expert in planning, 230
 Vāsudeva, Kusāna king, 279, 283, 291
 Vāsudeva, shrine of, *see* Bhāgavata Vāsudeva cult
 Vatsa *janapada*, 106, 109, 115, 116, 312
 Vavilov, N. J., 46
 Vedas, Vedic texts, 41, 46, 113, 339, 340
 chronology, 51, 79, 84
 evidence of political and social organization in,
 79, 83, 84–9, 90–1, 97, 99, 330–1
 see also Atharvaveda; Brahmanas; Rigveda;
 Samhitas
 Veddas, 153, 157
 Vedic period, 50–1
 see also Indo-Aryan speakers; Late Vedic/Early
 Iron Age; post-urban period; Vedas
 Venṅi (Peddaveṅi), 305, 306
 Vidarbha (Berar), 278, 280, 306
 Videha, 90, 97
 Viḍiśā, 23, 198, 200, 206, 225, 248–50
 Bhāgavata shrine and Heliodorus pillar, 136,
 248–50, 304, 309
 post-Mauryan, 227, 303–4
 size, 134, 136, 208
 see also Besnagar
 vihāras, *see* monasteries, Buddhist
 Vijaya, 152, 156, 157–8, 159, 174
 Vijayapur, *see* Nagarjunakonda
vīla, lake, 175
 village, 107, 108, 109, 114
 grama, *grama*, 195–6, 197
 Vindhya, 16, 64, 82, 279
 Virāṭa, *see* Bairat
 Viṣṇu, *see* Vaiṣṇavism
 Vogel, J., 300
 Vonones, king, 278
vrātyas, 91
vrīhi variety of rice, 193
 Vriji (Vajji), 115, 116, 202, 333
 Waddell, L. A., 200
 Wagle, N., 114, 195
 Wakankar, V. S., 338
 walls, enclosing, 57, 62, 72
 see also fortifications
 warfare, 71, 72, 120, 187, 332
 Wari-Bateshwar, 302
 wealth, Kautilya on creation of, 192, 194, 209,
 218, 333
 Weber, Max, 339–40
 weights and measures, 3, 194, 216–18, 337
 west coast, peninsular, 13, 19–21, 140–1, 227, 281
 Western Ghats, 19, 21, 22, 315
 Western India, post-Mauryan, 274, 277, 281
 Western Satraps, 274, 279, 280, 281, 304
 coinage, 306, 310, 312
 Wheeler, Sir Mortimer, 6, 7, 83, 100, 147, 151, 283
 excavations at Taxila, 6, 127, 234, 282, 286
 and Indus civilization, 5, 48, 63
 and post-urban period, 69, 71, 72
 White, Leslie, 92
 Weissner, P., 94
 Winternitz, M., 179, 210, 336, 337
 Wittfogel, K. A., 54
 Witzel, M., 84
 Woolley, Sir Leonard, 6
 writing, use of, 3, 99, 117, 336–7
 see also inscriptions; Mauryan empire; post-
 Mauryan period; scripts; Sri Lanka
 Xuan Zan (Hsuan-tsang), 108–9, 188, 252
 Yajñāśrī Sātakarni, king, 280
 Yājñavalkya, 339
 Yakkhas (Yakṣas), 157, 158
 Yamunā river, 20, 85, 108, 133, 293
 capture of Sarasvatī river, 28, 37, 38
 see also Ganges-Yamuna Doab
 Yarkand, 279
 Yaudheyas, 117, 118, 294, 333
 Yavanas, Yonas, 151, 159, 198, 280
 Yazdani, G., 306
yojana, measure of distance, 217
 Yonaka, 159