

## INDEX

- Abacá (Manila hemp), 178, 181, 248, *See also* banana; sisal hemp
- Aborigines, Australian
- agriculture, claims, 182–4, 251–2
  - firestick farming, 183
  - fish and eel traps, 183
  - millet, 183
  - yams, 182
- arrival date, 85, 237
- Banks' description, 11–12
- body painting, 64, 89, 93, 237
- cicatrices (scarification), 64
- clothing, 27–30, 61, 64, 209, 224–5
- European, reaction, 15–16, 227
- cold tolerance, 54–5
- Cook's description, 11
- Corandeerik mission, 30
- Denisovan genetic trace, 236
- depression when confined, 205
- dogs, not domesticated locally, 182
- hand stencils, 95–6
- house structures, early, 254
- hunter-gatherers, 6
- derogatory, 183–4
  - security of food supply, 132
- hypothermic response, 54–5
- mobile lifestyle, 205
- modesty absent, 11–12, 27, 64
- nakedness, 11–12, 54–5, 64
- cultural significance, 224
- nose bone, decorative, 240
- ochre, early evidence, 89
- Pascoe, Bruce, 183
- sedentism, 209
- shelters, natural, 75, 237
- Watson, Irene, 224
- windbreaks, 54
- Aborigines, Tasmanian
- adornment, cicatrices, 29
  - body shape, 109
  - breastfeeding, 193
  - caves, shelter in Pleistocene, 106, 107
  - clothing, 11, 27, 31, 107–10, 228
  - cold tolerance, 109
  - depression in captivity, 205, 253
  - fire utilized, 224
  - Flinders Island, 205, 253
  - hunting, wallabies, 78, 107
  - ice age, 27, 78, 105–10, 240
  - isolation, Holocene, 109, 115, 225, 241
  - modesty absent, 27, 31
  - nakedness, 11, 27, 61, 110, 121, 225
  - Neanderthal comparisons, 115, 240
  - Robinson, George Augustus, 205, 253
  - technology
    - awls, 107–9, 112
    - blades absent, 108
    - scrapers, 74, 107–9, 112, 240
    - simplicity, 221, 240
    - wallaby skins as bags, 31, 228
- Abri des Canalettes, France
- scrapers in MIS4, 235
- Abri Romani, Spain
- scrapers in cold climate phases, 235
- Abu Hureyra, Syria
- rye, early domesticated cereal, 247
- Acclimatization
- clothing, 64
  - cold exposure, 52
- Acrylic fibers
- developed by Du Pont, 226
- Adornment, 11, 228–9, 236–7, *See also* dress; tattoos
- clothing and archaeological signs, 91–3
- Adovasio, James
- perishable technologies, 227
- Adrenal gland diseases
- frostbite risk, 233
- Aegean civilization
- textile production, 255
- Aeta people, Philippines
- foragers with simple tools, 84
- Africa. *See also* San peoples
- agriculture, 174–7, 246, 250
  - aridity in Pleistocene, 7
  - beads, early, 92, 237
  - blades, early, 78, 88–90, 112
  - bone tools, early, 112
  - complex clothes, early, 88, 112, 114
  - cool regions, 80, 83, 104
  - earliest *Homo sapiens*, 221

- Africa. (cont.)  
 fire, earliest use, 224  
 Nuer people, 203  
 Stone Ages, 116, 241  
 stone tools, earliest, 221  
 African Humid Period, 121–2, *See also* climate  
 change, moisture  
 Agassiz, Louis  
 ice age theory, 39  
 Agave. *See also* maguey  
 Mexico, many varieties, 162–3  
 Agriculture. *See also* domestication; sedentism  
 Africa, 174–7, 246  
 Amazon basin, 167, 203, 246  
 animals  
 alpaca, 135–6, 161, 165–6, 246  
 camel, 176–7  
 cattle, 139, 142, 146, 155, 160, 175–6, 195, 203,  
 243, 254  
 chicken, 142, 201, 246  
 dogs, 134, 141–2, 162  
 goats, 136, 147–52, 155, 246, 254  
 horses, 195, 203, 246  
 llama, 135, 161, 165–6, 246  
 Muscovy duck, 162, 246  
 pigs, 134, 139, 142, 155–6, 172, 177, 246, 254  
 sheep, 135–6, 141, 147–52, 155, 158, 246–7,  
 254  
 silkworm, 159–60  
 turkeys, 162, 172–3, 246  
 water buffalo, 160, 195, 246  
 Australia  
 absence, 132, 182  
 claims, 120, 130, 147, 182–4  
 colonial, 150  
 causes debated, 5, 136–9, 187–9, 195–7, 211,  
 250–2  
 centers, 146  
 China, 156–60, 197, 246  
 climate change, 4, 13, 119, 129, 132, 137, 147, 154,  
 170, 184, 189  
 commensals, 140–2  
 birds, 142, 155, 162, 253  
 cats, 141–2, 155, 201  
 chicken, 142, 172, 201, 246  
 dogs, 134, 147, 155–6  
 fowl, 142, 156, 162, 172  
 guinea pig, 166, 246  
 mice, 142, 155, 245, 253–4  
 Muscovy duck, 162, 246  
 pigs, 139, 155, 172  
 rats, 142, 245, 254  
 turkeys, 162, 172–3, 246  
 crops as weeds, 142, 156, 172  
 disadvantages, 120, 132–5  
 ecological enclosure, 211  
 Epic of Gilgamesh, 19  
 feasting hypothesis, 138–9  
 fodder crops, 145, 149–52, 155  
 banana, 177  
 barley, 124, 142  
 chickpea, 149  
 legumes, 149, 151–2, 155  
 maize, 134, 161–2, 166, 171  
 millets, 142, 156, 158, 173, 246  
 mulberry tree, 159  
 peas, 151–2  
 rice, 156, 173  
 rye, 124, 142, 149  
 sorghum, 175  
 soybean, 248  
 sugarcane, 251  
 sunflower, 171–3, 246  
 taro, 177  
 wheat, 142, 149–51  
 yams, 177  
 food storage, 138, 245  
 Indian subcontinent, 146, 160, 174, 246  
 Mesoamerica, 130, 146–7, 197, 246  
 milk, secondary product, 247  
 North America, eastern, 146, 167–73, 246  
 Ohalo II, failed attempt, 140  
 Papua New Guinea, 177–81, 246  
 Peruvian region, 163–6, 246  
 plants  
 banana, 177–82, 246, 251  
 barley, 124, 133, 140, 142, 149, 246  
 beans, 161, 163, 246  
 bottle gourd, 171  
 cassava, 167  
 chenopod, 167, 246  
 chili peppers, 138, 164  
 cotton, 160, 164–5, 167, 246  
 enset, 177–8  
 flax, 152–5, 160, 175–6, 195, 246–7  
 grapes, 247  
 hemp, 129, 159–60, 163, 195, 204, 246  
 knotweed, 167, 246  
 maguey, 128, 161–3, 179, 246  
 maize, 134, 161–3, 166, 169, 171–3, 249  
 manioc, 167, 246  
 maygrass, 167, 171, 246  
 millets, 142, 146, 156–7, 160, 175, 204, 246  
 peanuts, 163, 246  
 peas, 151–2  
 potato, 166, 246  
 pumpkins, 161  
 ragweed, giant, 171  
 rice, 134, 139, 142, 144, 147, 156, 196, 204, 211,  
 246, 254  
 sago palm, 246, 251  
 sorghum, 175, 246  
 squash, 161, 163, 167–8, 171, 246, 249–50  
 sugarcane, 251  
 sumpweed (marsh elder), 171  
 sunflower, 146, 167, 171–2, 246

## INDEX

301

- sweet potato, 179, 251  
 taro, 177–9, 181–2, 246, 251  
 teff, 246  
 tobacco, 171  
 wheat, 133, 139–40, 142, 147, 149–51, 155, 158, 160, 243, 246  
 yams, 177–9, 181–2, 246  
 poor nutrition, 133, 244  
 psychology, 5, 210–12, 243, 246, 254  
 reversion to foraging, 254  
 Southwest Asia, 147–56, 197, 246  
 textiles, 4, 13, 15, 57, 116, 120, 126, 129, 135, 148, 162–6, 195–7, 211, 249–51, 254
- Air conditioning  
 synthetic fibers more viable, 58
- Airbus A350  
 carbon fibre components, 226
- Alaska. *See also* Beringia  
 eyed needle, early site, 87  
 indigenous peoples  
 clothing, complex, 61  
 stocky body build, 52  
 Mesolithic community, 253  
 woolly mammoths, 243
- Alcohol  
 barley cultivated for beer, 149  
 beverages from agaves, 162  
 frostbite risk factor, 233  
 grapes domesticated for wine, 247  
 hypothermia risk factor, 50
- Aleutian Islands, Alaska  
 traditional garments, 61
- Algeria  
 Barbary sheep herded, 175
- Alopecia  
 chimpanzees, human resemblance, 32
- Alpaca, 135, 161, 165–6, 203, 246. *See also*  
 agriculture, causes debated; camelids;  
 textiles; wool  
 domesticated for wool, 136
- Amazon basin, 167–8, 187, 203  
 complex societies, 167–8  
 cotton, 167, 203  
 horticulture, 187, 203  
 humidity in early Holocene, 243  
 plant domesticates, 246  
 sedentism, 167
- Ancient Egypt. *See also* Tarkhan dress  
 agriculture from Southwest Asia, 176  
 domesticated cats, 142  
 linen textiles, 175–6, 243  
 looms, vertical, 176
- Andaman Islanders, 3, 26. *See also* hunter-gatherers  
 nakedness, 221
- Angkor Wat, Cambodia  
 architecture as enclosure, 210, 254
- Angora  
 wool-like fiber from goats, 148
- Antarctic Cold Reversal (ACR), 45. *See also* climate  
 change; Younger Dryas
- Antarctica, 12, 40, 47, 52  
 cold acclimatization, 52  
 colder than North Pole, 40  
 global warming and sea levels, 231  
 ice cores, climate research, 40  
 wind chill index, 47  
 wind strength variation, 232
- Antelope skins  
 San garments, 61, 225
- Apparent Temperature scale. *See also* Steadman,  
 Robert; wind chill  
 measure of clothing needs, 232–3
- Aquatic theory  
 evolution of nakedness, 29
- Arab societies  
 traditional simple clothes, 124
- Arabia  
 camel domestication, 177
- Architecture. *See also* enclosure; sedentism  
 Angkor Wat, 210, 254  
 Çatalhöyük, 213, 215  
 enclosure with sedentism, 217
- Arctic fox  
 cold tolerance, 47  
 hunted for fur, Russia, 78  
 insulation value of furs, 233
- Arcy-sur-Cure, France  
 Châtelperronian site, 240
- Argentina  
 late weaning in foragers, 252
- Aridity. *See also* Pleistocene  
 clothing  
 animal skins, 126, 157  
 viability, 57–8, 121, 126, 180  
 dust, measure, 43–4  
 ice age climates, 7, 39, 43, 57, 121, 126, 157, 243  
 sweating, more effective, 7, 9, 57–8  
 textile preservation, 128, 163–4
- Arnhem Land, Australia  
 early Aboriginal site, 237  
 early beads, 237
- Art, Paleolithic, 91–2, 237  
 beads, 89, 104, 236  
 Sungir burials, Russia, 92  
 Chauvet Cave, France, 93  
 clothing as catalyst, 90–3  
 Cosquer Cave, France, 94  
 European ice age, 237  
 figurines with clothes, 26, 93  
 hand stencils, 93–6, 238  
 Lascaux Cave, France, 93  
 Neanderthals, 104–5
- Asses. *See* donkey
- Atacama Desert, Peru  
 cotton fishing nets, early, 249

- Australia. *See also* Aborigines, Australian;  
 Aborigines, Tasmanian  
 agriculture  
   colonial, textile production, 150  
   indigenous, debate, 182–4, 251–2  
 clothing origins  
   archaeology, 74–6, 112, 115  
   ethnography, 11–12, 26–31, 64  
 Australian Bureau of Meteorology  
   Apparent Temperature scale, 233  
 Australopithecines  
   possible Hobbit ancestors, 241  
 Austronesian populations, Melanesia. *See also* Lapita  
   culture, Melanesia  
   spread of agriculture, 251  
 Awns, 15, 69, 74–9, 81, 85–6, 88–9, 91, 101–2, 104,  
 107–8, 112–13, 126–7, 154, 157, 169, 172,  
 234–6, 240. *See also* Paleolithic, clothing  
 technologies  
 Africa, early, 78, 88, 112–13  
 Australia, 74–6, 234, 240  
 China, early, 76, 157  
 copper, 15  
 Europe, early, 77, 235, 240  
 Neanderthals, 102, 104, 240  
 North America, 169, 172  
 Peking Man, 81  
 Russia, early, 234, 236  
 Tasmania, 79, 107–8  
 Aztec civilization, 128, 162, 223  
   clothing, maguey fibers, 128  
 B. F. Goodrich  
   vinyl, development, 226  
 Babies. *See also* birth-spacing; weaning  
   chimpanzees  
     human resemblance, 32  
     human  
       cold vulnerability, 52  
 Backstrap loom. *See* loom, backstrap  
 Bailey, Geoff  
   time perspectivism, 255  
 Bakelite  
   early plastic, 226  
 Banana. *See also* agriculture, Papua New Guinea;  
   enset  
   Australia, not cultivated, 182  
   China, grown for fiber, 178  
   fiber in traditional garments  
     Melanesia, 180  
     Philippines, 181  
   India, cultivation, 251  
   Indus Valley, fiber use, 179  
   Papua New Guinea  
     domestication, 177–81  
   seeds in wild fruit, 178  
   textile fiber, 178  
     moisture absorption, 180–1  
 Banks, Sir Joseph  
   Aboriginal nakedness, 11–12  
   skirts in northern Australia, 225  
 Barbary sheep, 175, 187. *See also* agriculture, Africa  
   herded in early Holocene, 175  
 Barber, Elizabeth Wayland  
   clothing and women's work, 227  
 Barcan, Ruth  
   nakedness a social construct, 228–9  
 Barkcloth, 159, 180, 204. *See also* Mulberry tree  
   China, early stone beater, 159  
   Jomon culture, Japan, 204  
   Papua New Guinea, 180  
 Barker, Graeme  
   agricultural transition, 222  
   psychology of agriculture, 254–5  
 Barley. *See* agriculture, plants: barley  
   cultivated for beer, 149  
   fodder crop, 142  
 Barranco León, Spain  
   early hominin site, 81, 235  
 Barthes, Roland  
   fashion and clothing origins, 227–8  
 Bar-Yosef, Ofer  
   agricultural origins, 226, 244–5  
   sedentism, 245  
 Bast fibers, 159. *See also* flax; jute; nettle; ramie; textiles  
   cultivated not domesticated, 159  
   difficult to distinguish, 159  
 Bau de l'Aubesier, France  
   scrapers in cold climate phases, 235  
 Baudin, Nicolas  
   Tasmanian expedition, 227  
 Baume Bonne, France  
   scrapers in cold climate phases, 235  
 Beads. *See* adornment; art, Paleolithic: beads;  
   clothing, decoration transferred  
   Africa, early, 89, 92, 237  
   Australia, 89, 237  
   Levant, 92  
   Neanderthals, 104–5  
   Sungir burials, 91–2, 238  
   Yana site, Siberia, 236  
 Beagle Channel, South America, 225. *See also*  
   Darwin, Charles; Tierra del Fuego  
*Beagle, HMS*  
   Darwin's voyage, 12  
 Beans. *See* agriculture, plants: beans  
   late food crop, 161–2  
   lima, 246  
   mung, 246  
 Bee, squash  
   spread into North America, 249–50  
 Beer. *See also* agriculture, causes debated;  
   alcohol  
   barley domestication, 149  
 Belgium  
   dog domestication, claim, 141

- Bellwood, Peter  
 agricultural origins, 137, 254
- Beringia  
 land bridge to Americas, 87, 237
- Bilums, Papua New Guinea  
 traditional woven bags, 180
- Binford, Lewis R.  
 agricultural origins, 244
- Bipedalism. *See also* nakedness, biological  
 nakedness adaptive, 32, 36–7  
 theories, 231  
 thermal advantage, 34–6
- Bird-David, Nurit  
 psychology of agriculture, 246
- Birds, 155, 162  
 bred for feathers, 162  
 commensal domesticates, 155
- Birth-spacing, 138, 192–3. *See also* lactational  
 amenorrhea; population growth; weaning
- Black Sea  
 grape domestication, 247
- Blades, 26, 67, 69–72, 78, 80, 85–6, 88, 99, 102, 104,  
 108, 111–13, 126, 154–5, 235–6, 240–2. *See also*  
 microblades; tools, blades  
 Africa, early, 88–90, 104, 112  
 associated with *Homo sapiens*, 235  
 Australia, rare in Pleistocene, 74  
 Châtelperronian, 102–4  
 China, early, 76, 104, 112  
 Clark Mode, 4, 242  
 climate pattern, 72–6, 85–8, 90, 112, 115, 235, 241  
 complex clothing, 26, 67–9, 85–90, 101, 104, 108,  
 112–13, 126, 154  
 emergent phenomenon, 240  
 European fringe, early, 104  
 explanations, conventional, 102, 115, 241  
 functions, 69–70, 155, 242  
 Levant, early, 72  
 Neanderthals  
 Châtelperronian, 102–5, 109  
 rare in Neanderthal toolkits, 99  
 Russia, early, 104, 236  
 sickle, 144, 151, 245  
 Tasmania, absent, 108, 240  
 tropics, uncommon, 84, 115, 241  
 Uluzzian industry, 240  
 Upper Paleolithic tool, 115–16, 242  
 use-wear findings, 71–3, 234
- Blankets  
 decorated, North America, 169  
 kaross, 62, 225  
 lice, 113–14
- Blubber, whales and dolphins  
 thermal insulation, 10, 224
- Blue Mountains, Australia  
 Aboriginal cloaks, 225
- Body lice. *See* lice, clothing origins  
 Bronze Age textiles, 113
- Body painting. *See* decoration, body painting
- Body shape  
 climate adaptation, 52–3, 94, 109  
 Neanderthals, 52, 98–100, 109, 239  
 Tasmanians, stocky build, 109
- Boeing 787  
 carbon fiber components, 226
- Boellstorff, Tom  
 virtual reality, 256
- Bolivia  
 llamas domesticated, 161
- Bonobo. *See also* chimpanzees; de Waal, Frans  
 mental capacities, 230  
 neoteny and human resemblance, 32
- Border Cave, South Africa  
 archaeological site, 225
- Borneo, Indonesia, 144, 211. *See also* agriculture,  
 psychology; Barker, Graeme  
 Mesolithic hunter-gatherers, 144
- Bottle gourd  
 utilitarian domesticate, 171
- Boucher, François  
 clothing and costume, 227
- Boyd, Brian. *See also* Natufian culture, the Levant  
 domestication concept, 255  
 sedentism, 210, 254
- Brain size, large. *See also* intelligence, human  
 cold environments, 224  
 human success, 5, 19  
 Neanderthals, 222  
 neoteny, 32–3  
 over-rated, 222  
 thermal problem, 9
- Brazil. *See also* Amazon basin; Marajó Island  
 cotton grown by tribes, 167
- Breastfeeding. *See also* birth-spacing; modesty;  
 weaning  
 chimpanzees, 252  
 medical complications, 253  
 natural duration for humans, 252  
 public, 253  
 sexuality, 253  
 Tasmanians, 193  
 weaning foods, 252
- Brenquet, Catherine  
 wild sheep have no wool, claim, 244
- Bronze Age, 15  
 lice preserved on clothes, 113
- Brynjolfsson, Erik  
 computer revolution, 255
- Bushmen. *See* Hunter-gatherers; San peoples
- Buttons, clothing  
 ice age evidence, 93
- Cairo, Egypt  
 Tarkhan tomb, 176
- California, USA  
 claim for early MIS5 site, 237

## 304 INDEX

- California, USA (cont.)  
Mesolithic societies  
agriculture avoided, 170, 250  
weaning age, 252
- Camel. *See also* agriculture, animals  
domestication, 176–7
- Camelids. *See* alpaca; guanaco; llama; vicuña
- Caral, early city in Peru  
cotton and agriculture, 164–5
- Caravans  
llama, Andes, 166
- Carbon emissions  
another ice age averted, 38
- Cardiac surgery  
hypothermia, artificial, 50
- Caribbean  
temperature drop in LGM, 41
- Carothers, Wallace  
inventor of nylon, 226
- Carpathia*, RNS  
rescue ship, Titanic disaster, 51
- Carter, Michael  
clothing and dress, 228
- Cashmere, 148, 165. *See also* goats  
guanaco wool similar, 165
- Caspian Sea  
grape domestication, 247
- Cassava  
domestication, Amazonia, 167
- Çatalhöyük, Turkey. *See also* Hodder, Ian  
architecture as enclosure, 213  
early linen fabric, 128
- Cats, 155, 201. *See also* commensalism  
domestication, 142
- Cattle, 155, 176, 195, 243, 246  
delayed domestication, 155  
Indian, 146, 160  
secondary products, 195
- Caucasus region  
grape domestication, 247
- Cave lions  
hunted for pelts, 79
- Caves. *See also* wind chill  
art, painting  
clothing as catalyst, 92–3  
earliest, Indonesia, 237  
European ice age, 237  
shelter in Pleistocene, 10, 106  
Tasmania, 106–7
- Çayönü, Turkey  
early linen fabric, 128
- Cedar Forest, symbol of nature  
Epic of Gilgamesh, 18
- Cellophane  
waterproof cloth, 226
- Chang, K. C.  
food and agriculture, 248
- Châtelperronian  
Neanderthal industry, 102–5
- Chauvet Cave, France  
ice age paintings, 93
- Chavín culture, Peru  
maize a late food staple, 249
- Chen, Xingcan  
food in Chinese agriculture, 248
- Chenopod, 167, 171, 246. *See also* agriculture,  
North America
- Chertovy Vorota Cave, Russia  
early textiles, 128
- Chicago, USA  
temperature drop in LGM, 41
- Chickasaw people, North America  
turkey feather cloaks, 173  
feathers prized, 250
- Chicken, 139, 142, 156, 172, 196, 201, 246. *See also*  
agriculture, animals; commensalism  
China, 142, 156  
commensal domesticate, 142, 172, 201
- Childe, Vere Gordon  
civilization, definition, 223  
Neolithic revolution, 254
- Chili peppers  
early South American crop, 138, 164
- Chimpanzees, 32, 36, 85, 230, 252. *See also*  
bonobo  
alopecia, human resemblance, 32  
burned landscapes, 252  
fur cover, 36, 85  
human resemblance, baby, 32  
hunting behaviour, 221  
mental capacities, 230  
not domesticated, 252  
skin color, 36  
weaning age, 252
- China  
agriculture, early, 130, 156–60, 246  
banana grown for fiber, 178, 246  
beads, early, 92  
blade tools, early, 104, 112  
cashmere goats, 158  
cats fed on millet, 142  
chicken, 139, 142, 246  
cotton from India, 159  
Denisovans, 85  
dogs  
consumed as food, 156  
domestication, 142  
fodder crops, 142, 156  
hemp  
earliest evidence, 129, 159  
spread to India, 160  
hominins, early, 81  
Hong Kong, summer heat stress, 242  
jute, textile fiber, 159  
looms, complex, 157  
millet, first crop, 156  
modern humans, early, 85, 88  
Neanderthal traits in fossils, 240

- needles, early, 86, 156–7  
 Peking Man (*Homo erectus*), 87, 111  
 pigs, 139, 156  
 plastics recycled for fabric, 227  
 Pleistocene climates, 7, 43, 46, 76, 81, 88, 156–7, 236, 239  
 pottery, world's oldest, 202, 209  
 rice cultivation, 133, 139, 142, 147, 156  
 scraper tools, early, 81, 83  
 sheep, 158  
 silkworms, 159–60  
 spindle whorls, 157, 254  
 textiles, earliest, 129, 157–60, 254  
 Cholodenko, Alan  
   human–computer cocoon, 256  
 Chomsky, Noam  
   language makes humans unique, 230  
 Cicatrices. *See also* adornment; dress  
   Australia, 64  
   dress, not clothing, 228  
   Tasmania, 29  
 Cishan, China  
   millet cultivation, 157  
   weaving technology, 157  
 Civilization. *See also* clothing, psychology;  
   enclosure; social complexity  
   academic use declining, 6, 223  
   Aegean, 255  
   agriculture, 119, 201, 216–17  
   Ancient Egypt, 124, 142, 175–6  
   anthropological concept, 6, 223  
   archaeological concept, 223, 255  
   Aztec, 128, 162, 223  
   Chavín, 249  
   Childe's urban revolution, 223  
   civilizing efforts, colonial  
     Australian Aborigines, 16, 30  
     clothing, 6, 15, 19, 65, 144, 179  
     Tasmanian Aborigines, 205  
   delay since humans evolved, 5, 13  
   domestication, 212  
   enclosure, double, 216–17  
   Engels' view, 223  
   *Epic of Gilgamesh*, 18  
   fire in prehistory irrelevant, 224  
   Harappan, 160, 179, 251  
   ice age, future threat, 38  
   Inca, 128, 136, 165–6, 223, 249  
   intelligence not sufficient cause, 222  
   Mayan, 128, 162  
   Mesopotamian, 18, 148, 217, 227  
   moral elements, 6, 65  
   Olmec, 162  
   population explosion, future threat, 190  
   progress, connotations, 223  
   Renfrew, insular system, 216–17  
   sedentism, 119, 201, 216–17  
   social complexity, 6, 223, 255  
   textiles, 13, 148, 163–6, 227, 255  
 Clark, Grahame  
   stone tool classification, 241  
 Climate change. *See also* global warming  
   archaeological trends, 10, 73–7, 81–7, 106–10, 120–4, 235–6  
   clothing origins, 10, 73–7, 81–7  
   Heinrich events, 100, 239  
   hemispheric differences, 40  
   Holocene, 4, 13, 119, 121, 124  
   Little Ice Age, 38  
   moisture, 43, 121, 124  
     African Humid Period, 121  
     LGM in PNG highlands, 180  
   Neanderthal extinction, 100–2  
   orbital theory, 38  
   Pleistocene, 4, 10, 13, 18, 38–40, 100–2, 106–10, 235  
   PNG highlands in LGM, 181  
   rapid, 43–6, 100–2, 121, 239  
   Russia in LGM, 207  
   sea levels, 38, 231  
   Tasmania, 65, 105, 110  
   temperature, 40–1, 43, 45  
     early Holocene, 121, 124  
     hemispheric difference, 40, 223  
     LGM, 7, 41, 46, 77, 181, 207, 251  
     MIS1. *See* climate change, Holocene  
     MIS2. *See* LGM  
     MIS3 climate swings, 43–6, 100–1, 103–4  
     MIS4 cold phase, 78, 87, 89, 112, 232, 235  
     MIS5d cold phase, 232, 235  
     MIS5e, last interglacial, 24, 40  
     MIS9 interglacial, 82  
     proxy measures, 39–40, 42, 231  
     Siberia, late Pleistocene, 86  
   wind, 38, 42–3, 46–7, 100–1  
     proxy measures, 42–3, 232  
 Clo values. *See also* thermal physiology, clothing  
   animal furs, 233  
   clothing insulation measure, 59–60  
   improvements, 233  
   limitations, 61–2  
 Cloggs Cave, Australia  
   early bone awl, 75, 234  
 Clothing. *See also* agriculture; modesty; textiles;  
   thermal physiology  
   Aborigines, Australian, 11, 27–8, 60–1, 64, 75, 224–5  
   Aborigines, Tasmanian, 11, 27, 61, 65, 74, 79, 107–10, 121, 228  
   Africa, indigenous, 12, 225, 227  
   Americas, indigenous, 12, 162–70, 172–3, 225, 227  
   China, early, 75–7, 157–60, 248  
   climate change and technology, 10, 73–7, 81–7, 120–4, 235–6  
   cold tolerance impaired, 54, 64–5  
   complex, 28–9, 62–5  
     wind chill benefits, 63  
   decoration transferred, 18, 65, 90–2, 105, 112, 123

- Clothing. (cont.)  
 definition, 17–18, 227–9  
 Epic of Gilgamesh, 18  
 European, Aboriginal reaction, 16, 227  
 fingers vulnerable to cold, 96  
 functions, 10, 17–18, 28, 64, 229  
 gender bias, 17, 227  
 Genesis, acquisition of clothes, 18, 229  
 Iceman, 127  
 India, early fabrics, 160  
 layers, 27, 30, 59–65, 74, 77, 86, 91–2, 99, 102, 104, 109, 217  
 lice and origins, 113–14  
 Mesopotamia, 148, 227  
 modesty, 123–4, 224, 227–8  
 moisture problem, 57–8, 120–1, 124  
 origins  
   archaeological evidence, 15, 26, 66, 78–9, 81–7, 92, 99, 111–13, 115, 235  
   lice research, 113–14  
   theories, 23–4, 227–8  
 Papua New Guinea, 179–81, 225  
 physiology, 56–61, 120–4, 242–3  
 psychology, 64–5, 209–13  
 Russia, early, 77, 92, 234  
 San people, southern Africa, 61, 225  
 sedentism, 209–10  
 simple and complex, 28–9, 61–5, 97  
 sociology, 17, 228  
 technological complexity and temperature, 236  
 textiles, 120–4, 135–6, 147–9, 152, 155, 157–60, 162–6, 168–70, 175–6, 178, 195–7, 203–4, 211, 213–15  
   vulnerable to wind chill, 126  
 Tierra del Fuego, 12, 225  
 zones, 63–4
- Clutton-Brock, Juliet  
 animals as walking larders, 222
- Cohen, Mark  
 food storage myth, 138, 245  
 population and agriculture, 137–8
- Cold tolerance  
 Africans, 53  
 Australian Aborigines, 54  
 Fuegians, 52  
 impaired by clothing, 54, 64  
 Neanderthals, 97–9  
 Tasmanian Aborigines, 109
- Commensalism, 140–2, 202. *See also* agriculture, commensals; sedentism; Tchernov, Eitan
- Complexity, social. *See* social complexity
- Computers  
 human-computer cocoon, 217, 256
- Concise Oxford English Dictionary*  
 clothing, definition, 18, 228  
 dress, definition, 229  
 naked, definition, 223–4
- Congo, Democratic Republic of the bonobo sanctuary, 32
- Cook, Captain James, 11, 15
- Australian Aborigines, 11  
 skirts in northern Australia, 225
- Cooking. *See also* Wrangham, Richard  
 onset, 177  
 role in human evolution, 224, 229  
 taro, 251
- Copper. *See also* metal artifacts  
 Age, 15  
 awl, oldest metal artifact, 15
- Coranderk mission, Melbourne  
 Aborigines taught to farm, 30
- Corn. *See* maize
- Cosgrove, Richard  
 Neanderthals and Tasmanians, 105, 240
- Cosquer Cave, France  
 hand stencils, 92–4, 238
- Costume. *See also* dress  
 distinguished from clothing, 227–8
- Cotton. *See also* agriculture, plants; textiles  
 advantages in hot climates, 233  
 Africa, spread from India, 176  
 agricultural origins, challenge, 188, 249  
 Amazon basin, 167, 203  
 China, 159  
 cottonseed, 164  
 cotton-synthetic blends, 233  
 currency in Mexico and Peru, 163  
 displaced flax worldwide, 247  
 domestication centers, omitted, 246  
 fishing nets, early, 164–5, 249  
 genetic studies, 249  
 Incas, cotton-wool blends, 166  
 India, 146, 160  
 Industrial Revolution, 13–15  
 Mexico  
   most popular variety, 160  
   separate domestication, 161, 163  
 milkweed similar, 171  
 Pakistan, early date, 248  
 Peru, early cultivation, 163–5
- Coupe Gorge, France  
 scrapers in cold climate phases, 235
- Cowpea  
 African fodder crop, 177
- Critical period  
 thermoregulation, development, 52
- Crocodiles  
 hunted in Southeast Asia, 246
- Cueva Negra, Spain  
 early fire use, 224
- Cultivation, 177. *See also* agriculture, plants;  
 domestication; horticulture  
 bast fibers, wild, 159  
 domestication, distinguish from, 130, 152, 159, 163, 167, 171, 187, 212, 222  
 Israel, early claim, 140  
 overshadows animal domestication, 134



- Currency  
 cloth in Mexico and Peru, 163
- Cyprus  
 early cats and crops, 142
- Czech Republic  
 dog domestication, claim, 141  
 Pavlov, ice age site, 72–3
- d'Entrecasteaux, Antoine  
 Tasmanian expedition, 227
- Dacron  
 early polyester fiber, 226
- Daisy yam  
 propogated by Aborigines, 183
- Darling River basin, Australia  
 wild millet sown, 183
- Darwin, Charles  
 dress and sexual selection, 228  
 nakedness, sexual selection, 30–2, 230–1  
 visit to Tierra del Fuego, 12, 24, 52
- Darwin glass  
 Tasmanian tool, hide-working, 108
- Davidson, Iain  
 watercraft, mental capacities, 237
- de Waal, Frans  
 bonobos, 230
- Decoration, 91–3, 107, 228. *See also* adornment;  
 clothing, decoration transferred  
 archaeological trends, 89–92  
 blankets, North America, 169  
 body painting, 25, 64, 89–91, 105, 171, 237  
 clothing and archaeological visibility, 91–3, 112  
 dress and clothing, 228–9  
 feathers, 173, 179  
 Fuegians and clothing, 12, 90  
 fundamental desire, 17, 28, 90, 92, 112, 228  
 later motive for clothes, 23, 123, 228  
 loincloths, Solomon Islands, 180  
 Neanderthals, Châtelperronian, 104–5, 107  
 nose bone, Australia, 28, 240  
 pottery, woven cloth, 202  
 spindle whorls, China, 157
- Denham, Tim  
 agriculture in Papua New Guinea, 177  
 yams in Australia, 182–3
- Denisova Cave, Russia  
 early eyed needle, 77, 234
- Denisovans  
 China, 85  
 early eyed needle, claim, 234  
 interbred with modern humans, 236
- Dennell, Robin  
 cold conditions in Eurasia, 236
- Depression  
 Aborigines, confined by whites, 205, 253
- d'Errico, Francesco, 237  
 climate change and adaptation, 236
- Devil's Lair site  
 southwest Australia, 75
- Diabetes mellitus  
 frostbite risk, 233
- Dingo, Australian dog  
 adopted as domesticate, 182  
 genetic research, 245
- Dmanisi, Georgia  
 early hominins, 81
- Dogbane  
 textile fiber in North America, 169
- Dogs, 134, 147, 156, 161–2, 164, 166, 177, 208, 245, 248,  
 253–4  
 Americas, 161–2  
 bred for wool by Salish, 169  
 China, 142, 156  
 Dingo, 182, 245  
 domestication, 134, 141–2, 147, 245  
 Melanesia, 177  
 Neolithic early, 254  
 Peru, fed on maize, 166  
 sedentism, 134, 141–2, 147, 155, 201, 208  
 sheep herding, 197  
 transport in Alaska, 253
- Dolphins  
 blubber as thermal insulation, 10
- Domestication, 130, 134–5, 141, 167. *See also*  
 agriculture; cultivation; psychology,  
 agriculture  
 animals, 159–60, 187, 222  
 contradiction, 134–5  
 herding without domestication, 187  
 Boyd, Brian, 255  
 centers, 146  
 not necessarily agricultural centers, 146, 175, 188  
 definition, 210–12, 222, 255  
 Hodder, Ian, 212–13  
 human, 211–13, 222  
 Ingold, Tom, 211  
 physical signs, 167, 188, 245  
 plants, 134, 159–60, 187  
 cultivation without domestication, 187  
 plants as weeds, 172  
 sedentism and commensals, 141  
 simultaneous plant and animal, 159–60
- Domestication of Europe, The*  
 Hodder, Ian, 212
- Don River, Russia,  
 Kostenki ice age site, 207
- Donkey, 175, 195  
 domestication, 246
- Dortch, Charles  
 Devil's Lair site, 234
- Dransart, Penelope  
 llama wool a primary product, 249
- Dress, 17, 227. *See also* clothing; costume;  
 decoration; fashion  
 Barthes, Roland, 227  
 Boucher, François, 227  
 Carter, Michael, 228  
 clothing an impediment, 90–1

- Dress (cont.)  
 definition, 229  
 distinguished from clothing, 227–8  
 Ribeiro, Aileen, 228  
 Taylor, Lou, 228
- Dromedary. *See* camel
- Du Pont Corporation  
 artificial fibers, development, 226
- Dudin, A. E., Russian archaeologist Kostenki  
 excavations, 207
- Dunbar, Robin  
 pair-bonding in humans, 231  
 social brain hypothesis, 225
- Dust, paleoclimate records  
 proxy for wind strength, 42–4, 100–1, 232
- Dyes. *See also* textiles  
 Paleolithic, Georgia, 127  
 Peru, early, 164  
 plastics, early development, 226  
 sunflower, 171
- Dzudzuana Cave, Georgia  
 flax fibers, Paleolithic, 127
- Eagles. *See also* birds  
 Teotihuacan, fed on maize, 162
- East Timor (Timor-Leste)  
 early evidence for fishing, 237
- Ecuador  
 early agriculture, 246  
 maize a late food crop, 249
- Eden, 18. *See also* Genesis; Quran; Torah  
 narrative and analogy, 18
- Eel farming  
 Aboriginal Australia, 183
- Egalitarian society. *See also* social complexity  
 agriculture, different values, 143–4  
 Hayden's feasting model, 138  
 complex clothing, undermines, 216  
 hunter-gatherer ethos, 138, 216, 222  
 Mesolithic, complexity, 167, 204
- Egypt, Ancient. *See* Ancient Egypt; flax; linen
- Eicher, Joanne B.  
 dress and clothing, 229
- El Paraíso, Peru  
 early city, cotton main crop, 165
- Elephants  
 nakedness adaptive, 9
- Emergence of Civilisation, The*  
 Renfrew, Colin, 216
- Emperor's New Clothes, The*  
 Andersen, Hans Christian, 17, 228
- Enclosure. *See also* architecture; civilization;  
 domestication; psychology  
 agriculture, 210–12, 214–17  
 complex clothes, 27, 57–8, 64, 105, 121, 213–17  
 digital revolution, 256  
 sedentism, 207–10, 212, 214–17
- Endeavour, HMS*  
 Cook's vessel, 11
- Engels, Friedrich  
 civilization as slavery, 223
- Enkidu, wild man  
 Epic of Gilgamesh, 18
- Enset. *See also* banana  
 African fiber crop, 177–8
- Entanglement. *See also* enclosure  
 Neolithic, Hodder's concept, 213–15  
 textiles, 214
- Environmental lapse rate  
 temperature drop with altitude, 180
- Epigenetics  
 neoteny, possible role, 33
- Erasure, human  
 fusion with digital technology, 256
- Ethiopia  
 body painting, Suri people, 25  
 donkey domesticated, 175  
 enset cultivated, 177  
 highland temperatures, 24, 80, 83, 235
- Ethnography. *See* hunter-gatherers  
 agriculture  
 clothing associated, 135, 182, 211  
 nutritional decline, 244  
 analogies in archaeology, 225  
 breastfeeding, 193–4  
 clothing origins, evidence, 10, 12, 23, 26  
 foragers, aversion to agriculture, 132–3, 143–4,  
 183, 211
- Euphrates River, Syria  
 early rye cultivation, 149, 247
- Europe  
 agriculture, introduction, 126, 204, 212, 244, 246  
 art, ice age, 89, 92–6, 237  
 hand stencils and frostbite, 93–6  
 climate  
 ice age, 45–6, 81, 207, 236, 239  
 swings, rapid in MIS3, 100–1  
 Younger Dryas cold phase, 45  
 clothing  
 ice age, 77–9, 109  
 shoes, early, 86  
 domestication, 212–13  
 hominins, early, 81, 235  
 Mesolithic, 143, 204, 246  
 Neanderthal extinction, 100–2, 237  
 textiles  
 finds, early Holocene, 129  
 ice age, evidence, 127–8  
 technologies, Paleolithic  
 climate trends, 82–3, 112, 235, 240, 242  
 eyed needles, Solutrean, 77–8
- Evenson, Sandra Lee  
 dress and clothing, 229
- Evolution, 5–7, 12, 32, 36–7, 66, 204, 231–2, 255,  
*See also* bipedalism; Darwin, Charles;  
 domestication; feathers; hominins; lice;  
 nakedness; neoteny; sweating  
 adaptation not always involved, 7, 33–4, 230

- agriculture, evolutionary view, 5, 13, 131, 190, 222, 245
- biblical alternative, appeal, 19
- clothing, unique, 10, 28
- human uniqueness, 6–7, 19, 221–2, 224, 229–30
- modern human lifestyle, 5–6, 10, 13, 115, 221, 225–6
- sapient paradox*, 13, 222, 226
- sedentism, 254
- social, 223, 250, 255
- clothing and complexity, 216
- Read, Dwight W., 221, 230
- time and psychological processes, 255
- Eyed needles, 24, 26, 69, 74, 76–7, 86–7, 154, 156–7, 234, *See also* clothing, complex; needles
- Alaska, earliest, 87
- Australia, absent, 74
- China, early, 76, 156–7
- Europe, delayed, 77
- not needed for complex clothes, 77
- Russia, 86, 234
- underwear, 76–7
- world's oldest, 77, 234
- Fagan, Brian
- prehistory textbook, *xviii*
- Fashion. *See also* dress
- clothing, 13, 17–18, 64, 66, 119, 144, 228
- Fashion System, The*
- Barthes, Roland, 227–8
- Fayum Oasis, Egypt
- early agriculture, 175
- Feasting hypothesis. *See also* Hayden, Brian
- agricultural origins, 138–9, 144, 170
- Feathers
- evolutionary origin, 47, 232
- Melanesia, decoration, 179
- Mexico, wild birds kept, 162
- North America
- blankets, 173
- feathers prized, 173, 250
- peacock, Darwin's worry, 30, 231
- thermal function, 47, 173
- turkey domesticated, 172–3
- Figurines. *See also* art, Paleolithic
- Gilgal 1, West Bank, 123–4
- Hohle Fels Cave, Germany, 127
- Lespugne, France, 128
- Malta, Russia, 26
- Willendorf, Austria, 127
- woven apparel in Pleistocene, 127–8
- Finlayson, Clive
- Neanderthals in Gibraltar, 239
- water in human evolution, 222
- Fire, human control
- archaeological evidence, early, 10, 224
- chimpanzee precursor, 252
- cooking and human evolution, 224, 229
- limitation as thermal adaptation, 10
- Neanderthals limited, 239
- Peking Man, 81
- Tasmanian Aborigines, 11, 224
- Firefighters, clothing
- thermal challenges, 242–3
- Firestick farming
- Australian Aborigines, 183
- early origins, 252
- foragers, long history, 252
- Fishing
- agricultural contexts, 139, 157, 164
- Chinese texts, early nets, 159
- cotton nets, Peru, 164, 249
- East Timor, early, 237
- Hemudu, bone net shuttles, 157
- Mesolithic, 140, 143, 204, 246
- Ohalo II fibers, possible nets, 140
- technology, complex, 87, 157, 164, 246
- trade for cotton, Peru, 164–5, 249
- traps, Australia, 183
- upwelling regions, rich, 43
- Flax. *See also* agriculture, plants: flax; bast fibers; linen; Tarkhan dress
- Africa, spread from SW Asia, 175
- cultivation, early, 152, 155, 195, 197, 247
- domestication centers, omitted, 246
- Egypt, Ancient, 176
- extraction of fibers easy, 247
- fiber properties, hot climates, 243
- genetic study, 247
- Indian subcontinent, 160
- Levant, founding crop, 247–8
- Mesopotamia, 148
- Neolithic, early finds, 128–9, 154
- Paleolithic, fibers preserved, 127
- spinning by hand, 152–4
- Fleece. *See also* Secondary Products Revolution;
- sheep; wool
- camelids, South America, 166
- sheep, 135, 147–8
- primitive breeds, coarse, 246
- Fletcher, Roland
- Angkor Wat enclosures, 254
- Flinders Island, Tasmania
- Aborigines confined, 205
- Flood, Josephine
- agriculture absent in Australia, 251–2
- Cloggs Cave excavation, 234
- Flores, Indonesia
- home of the Hobbit, 241
- Florida, USA.
- Reed team, lice research, 113
- Windover textile site, 129, 170
- Fodder crops. *See also* agriculture, fodder crops
- agricultural origins, 149–52, 155, 197, 211
- Africa, 175–7
- Americas, 162, 164, 166, 172–3
- China, 142, 156–60
- grasses as animal feed, *xviii*, 134–5, 211

- Fodder crops (cont.)  
 Papua New Guinea, 177, 251  
 Southwest Asia, 149–51, 155, 158, 247
- Foley, Robert  
 paradox of human evolution, 222
- Fontana Ranuccio, Italy  
 scrapers in MIS12, 235
- Food. *See also* agriculture, causes debated  
 agricultural origins, 190–7, 206, 222, 244–5, 248, 254  
 cold environments, 46, 54, 87, 236, 240  
 emphasis in prehistory, 5–6, 222  
 hunter-gatherers, definition, 6  
 production  
   definition of agriculture, 131, 145, 189  
   storage myth, 138
- Foragers. *See* Hunter-gatherers, concept flawed
- Fort Rock Cave, Oregon  
 early woven sandal, 128
- Frost  
 crop failure, PNG highlands, 181
- Frostbite, 51–3, 98, 233, 239  
 Africans more susceptible, 53  
 Asian peoples more resilient, 53  
 fingers, varying susceptibility, 93–5  
 foragers, serious consequences, 239  
 hand stencils, 93–6, 238  
 Japanese experiments, WWII, 49  
 Neanderthals, likely resilient, 98  
 penis vulnerable, 51–2  
 risk factors, 233  
 thumb usually spared, 238
- Fuegians, Tierra del Fuego  
 clothing, 12, 225  
   impediment to getting dressed, 90–1  
 cold tolerance, 24, 52  
 Darwin's description, 12, 24  
 modesty absent, 90
- Fuente del Trucho, Spain  
 hand stencils, 239
- Fur. *See also* clothing; hides, animal; nakedness;  
 thermal physiology  
 chimpanzees, 32–3, 36, 85  
 early hominins, 85  
 human loss of cover, 4, 6–7, 9–10, 23, 29–30, 37, 224, 231  
 Iceman's clothes, 127  
 insulation value, 62, 224, 233  
 marine mammals, loss, 224  
 moisture permeability, low, 243  
 Neanderthals, 36, 97  
 Paleolithic clothes, 57, 78–9, 120, 157, 238  
 possum-fur cloaks, Australia, 27, 61, 64, 75  
 rabbits kept for fur, Mexico, 162  
 shade in tropics, 34, 36  
 sweating ineffective, 9, 34  
 thermal function in animals, 47, 56, 58  
 wallaby skins, Tasmania, 78, 107
- Gamble, Clive  
 agricultural origins, 222
- Gammage, Bill  
 Aboriginal farming, 183
- Gargas caves, France  
 hand stencils, 94, 239
- Gascoigne, John  
 Aboriginal nakedness, 227
- Gender bias  
 clothing in archaeology, 17, 227
- Genesis, 18–19. *See also* clothing, origins; modesty;  
 Torah  
 shame and clothing origins, 229
- Georgia  
 Dmanisi, early hominin site, 81  
 fibers, Paleolithic, 127, 152
- German Archaeological Institute. *See also* Schmidt,  
 Klaus  
 Göbekli Tepe excavation, 243
- Germany  
 ice age figurine, possible clothes, 127  
 lice research team, 114–15  
 Schöningen, Paleolithic site, 78, 82, 241
- Gesher Benot Ya' aqov, Israel  
 fire use, early evidence, 224
- Gibraltar, UK  
 cave art, 105  
 last Neanderthals, 101, 105, 239
- Gilgal I, West Bank site  
 figurine with girdle, 123–4
- Gilgamesh. *See* Gilgamesh, Epic of
- Gilgamesh, Epic of. *See also* civilization; clothing,  
 psychology; Genesis  
 Mesopotamian story, 18–19
- Giraffe  
 long neck, adaptation theories, 35
- Global warming. *See also* climate change  
 anthropogenic, 38  
 Antarctic ice melting, 231  
 Little Ice Age, 38  
 sea levels, 38, 231  
 early Holocene, 4, 13, 119–21  
 textile revolution, 124, 129  
 last interglacial, 132
- Gloves. *See also* clothing, physiology; leather; hand  
 stencils  
 frostbite, limited protection, 96
- Goats, 135–6, 141–2, 147–52, 155, 159, 175, 195, 246–7, 254  
 Africa, spread of domesticates, 175  
 angora, textile fibers, 148  
 cashmere, wool-like fiber, 148, 158  
 China, 158  
 fiber considered a secondary product, 247  
 milk, 247  
 mohair, textile fiber, 148  
 mountain goats, North America, 169

- pastoralists, 203  
 spread to India, 160
- Göbekli Tepe, Turkey  
 loincloths, early modesty, 123
- Golding, William  
*Lord of the Flies*, xvii
- Golson, Jack  
 agriculture in Papua New Guinea, 177
- Goodall, Jane  
 chimpanzees, hunting behavior, 221
- Goosefoot. *See* chenopod
- Gore-Tex®  
 breathable waterproof textile, 243
- Gorillas. *See also* lice  
 lice and nakedness, 37  
 neoteny in humans, 32–3
- Goroka, Papua New Guinea  
 minimum temperatures, 180
- Grapes. *See also* Alcohol  
 domestication, 247
- Grotte du Lazaret, France  
 scrapers in cold climate phases, 235
- Grotte du Renne, France  
 Châtelperronian site, 240
- Guanaco, 90, 165–6, 249. *See also* camelids  
 ancestor of llama, 12  
 skins worn by Fuegians, 12, 90  
 wool, 165
- Guinea pig  
 commensal domesticate, 246  
 fed on maize, 166
- Guitarrero Cave, Peru  
 oldest cloth fragments, 128
- Habituation  
 tolerance to cold, 52
- Hamster, golden  
 domestication, 246
- Hand-axes, 235
- Hand stencils. *See also* art, Paleolithic; frostbite;  
 gloves, leprosy; Raynaud's disease  
 Australia, 95–6  
 Cosquer Cave, France, 92–4, 238  
 Fuente del Trucho, Spain, 239  
 Gargas caves, France, 94, 239  
 Indonesia, 95–6  
 Maltravieso Cave, Spain, 238  
 shortened fingers, 93–6, 238  
 Tasmania, 107–8
- Harappa, Pakistan  
 early city, 160
- Harappan civilization  
 banana grown for fiber, 179
- Harlan, Jack  
 wild wheat experiment, 151
- Hayden, Brian  
 agriculture, feasting hypothesis, 138  
 sedentism, 253
- Head lice. *See also* lice  
 differ from body lice, 37  
 split from body lice, 113
- Heinrich events, 100, 239. *See also* climate change,  
 rapid; Europe, climate swings  
 Neanderthal extinction, 100
- Hemispheres, world  
 clothing developments, 100  
 temperature differences, 7, 40, 110  
 wind differences, 42, 101
- Hemp. *See also* abacá; maguey; sisal hemp  
 domestication centers, omitted, 246  
 China, early cultivation, 159  
 India, 160  
 Indian (North America), 169
- Hemudu, China  
 spindle whorls, early, 157, 248, 251
- Heterochrony. *See* neoteny  
 gene expression, timing, 33
- Hides, animal. *See also* clothing, moisture problem;  
 decoration; Paleolithic, clothing  
 technologies; use-wear  
 Aleutian Islands, Alaska, 61  
 antelope, San people, 61–2, 225  
 arctic fox, 47, 78, 233  
 availability, postglacial, 124, 126  
 buffalo, 243  
 caribou, 61  
 cattle, Africa, 176  
 cave lion, 79  
 climate suitability, dry, 57–8  
 dog, Mexico, 162  
 goat, 127, 148  
 guanaco, Fuegians, 12, 90, 225  
 hare, China, 157  
 horse, ice age Germany, 78, 203  
 hyenas, 78  
 Iceman's clothes, 127  
 kangaroo, 27–8, 61, 74, 109  
 possum, 27, 30, 61, 74–5, 109, 225  
 sea mammals, Fuegians, 12, 225  
 sheep, 78, 127, 148  
 shelters, ice age Russia, 207–9  
 thermal properties  
 insulation, 47, 58, 61–2, 233  
 permeability, poor, 58, 124–5, 243  
 wallaby, 27, 31, 78–9, 107, 109, 228  
 wolves, Russia, 78
- Ho Chi Minh City, Vietnam  
 Mesolithic-Neolithic site, 246
- Hobbit (*Homo floresiensis*)  
 tools, Lower Paleolithic, 115
- Hodder, Ian  
 agricultural origins unexplained, 245  
 domestication concept, 212–13  
 sedentism, 213
- Hoffecker, John  
 early Russian eyed needles, 234

- Hoffecker, John (cont.)  
 food technology in cold environments, 87  
 technological complexity, clothing, 236
- Hohle Fels Cave, Germany  
 ice age figurine, 127
- Holocene. *See also* global warming; Marine Isotope Stages (MIS), MIS1  
 agricultural origins, coincidence, 132, 137, 147, 188, 195  
 clothing, moisture problem, 57–8, 119–21, 124–5  
 ecological changes affecting clothes, 124  
 foragers contaminated by agriculture, 223  
 humidity high, onset, 121–2, 243  
 population growth, 190–1, 196, 250  
 sedentism, 209  
 textiles favoured, 57–8, 124, 126, 154, 195, 211, 213  
 warming rapid, onset, 45, 121
- Hominins. 3, 6–8, 23–4, 26, 32–8, 43, 46, 66, 73, 78, 80–3, 85, 87, 96, 99, 101, 111–12, 115, 121, 132, 204, 221, 224, 229, 231, 235, 240–2, 252. *See also* Denisovans; *Homo erectus*; *Homo floresiensis*; *Homo habilis*; *Homo sapiens*; Neanderthals  
 agriculture, late onset, 132  
 bipedalism, 28, 34–6, 96, 231  
 body hair, 23, 28–37, 85, 97  
 climate  
 change, recent hominin evolution, 7, 24, 37–8  
 constraints, dispersals, 26, 37, 80–1, 85, 87, 235  
 clothing needs, 37–8, 43, 47, 66, 73, 78, 80–3, 99, 101, 105–12, 115, 121  
 fire use, 10, 54, 81–2, 224, 229, 239, 252  
 foraging economy, long duration, 3  
 neoteny, 32–4, 231  
 pair-bonding, 231  
 sedentism, late emergence, 204  
 skin color, 36–7  
 species, Pleistocene, 8  
 tool use, 221, 235, 240–2
- Homo erectus*, 85, 111, 230  
 artistic talents, 230  
 hairier than modern humans, supposed, 85  
 Java Man, 80  
 Peking Man, 111
- Homo floresiensis* (Hobbit). *See* Hobbit
- Homo habilis*  
 possible Hobbit ancestor, 241
- Homo sapiens*. *See also* nakedness, biological; sapient paradox; uniqueness, human  
 agriculture, long delay, 131  
 China early, 85, 88  
 clothing and global dispersal, 85–8, 104, 112, 236–7  
 Denisovans, interbreeding, 236  
 evolution, first evidence, 221  
 Hobbit, extinction, 241  
 Neanderthals  
 body shape differences, 98  
 competition, 5, 102, 105, 109, 237  
 hairier, 97  
 interbreeding, 102, 239–40
- Honduras,  
 maguay fibers, early, 163
- Hong Kong, China  
 agriculture resisted in region, 246  
 summer heat stress and clothing, 242
- Hopi peoples, Arizona  
 men engaged in weaving, 227
- Horses. *See also* agriculture, animals; pastoralists  
 bone tools, Schöningen, 241  
 domestication, 203, 246  
 hides used at Schöningen, 78  
 ice age art, 93  
 pastoralists, 203  
 secondary products, 195, 220
- Horticulture. *See also* agriculture; cultivation  
 agriculture, wider concept, 187, 203  
 Amazon basin, 167, 187, 203  
 Melanesia, 187, 203  
 Papua New Guinea, 177
- Hosfield, Rob  
 finger frostbite, serious effects, 239
- Hottentot people, southern Africa.  
*See also* Khoe-San  
 Venus figurines, 238
- Howiesons Poort, South Africa  
 early blade tools in MIS4, 90
- Huaca Prieta, Peru  
 cotton yarn, early, 164  
 textiles in Late Pleistocene, 249
- Hublin, Jean-Jacques  
 early *Homo sapiens*, Morocco, 221  
 Neanderthal regional extinctions, 239
- Humbaba, forest guardian  
 Epic of Gilgamesh, 18
- Humidity. *See also* Holocene; moisture problem,  
 clothing; thermal physiology, humidity  
 African Humid Period, 121–2  
 agriculture and textiles, 211  
 air conditioning and synthetics, 58  
 Amazon basin, 167, 243  
 Apparent Temperature scale, 233  
 Asia, eastern, early Holocene, 243  
 body shape, pygmies, 53  
 clothing issues, 57–8, 119–21, 154, 242–3  
 North America, early Holocene, 243  
 Philippines, banana fabrics, 181  
 PNG highlands, 180  
 sweating compromised, 57, 124–5  
 synthetic textile fibers, 58, 233
- Hunter-gatherers. *See also* Aborigines, Australian;  
 Aborigines, Tasmanian; ethnography;  
 Mesolithic  
 Aeta people, Philippines, 84  
 Andaman Islanders, 3, 221  
 Argentina, 252  
 body decoration, 25, 29, 90, 105  
 clothing, 12–13, 27–8, 60–2, 67, 225

- cold tolerance, 52, 54–5  
 concept flawed, 6, 222–3  
 definition, 6, 222–3  
 economic security, 47, 135, 138, 143, 244  
 ethnographic analogy for prehistory, 26, 225  
 Fuegians, 12, 52, 225  
 Hadza, 252  
 Holocene, affected by agriculture, 223  
 Natufian, 253–4  
 Neanderthals, 102  
 naked, 3, 10, 12, 23, 25  
 pair-bonding, 30  
 San peoples, 12, 61–2, 221, 225, 252  
 social complexity, 204, 216, 250  
 stability, 3–5, 13, 226  
 technological complexity, 13, 236, 240  
 weaning practices, 192–4, 252
- Hyenas, South Africa  
 skins removed, 78
- Hypothermia, 49–51, 96. *See also* clothing; frostbite; thermal physiology  
 acclimatization, 52  
 artificial, cardiac surgery, 50  
 Australian Aborigines, 54–5  
 immersion, 50  
 infants more vulnerable, 52  
 Neanderthal extinction, 101  
 stages, 49–50  
 susceptibility varies, 53  
 Swiss staging system, 233  
 water, risk increased, 50–1, 233
- Ice age. *See* climate change; Pleistocene
- Icebergs  
 Heinrich events, 100–1  
 Titanic disaster, 51
- Iceman (Ötze)  
 clothes, 127  
 frostbite in toe, 95
- ICI (Imperial Chemical Industries)  
 polyester fibers, development, 226
- Immersion hypothermia  
 time to death, 50
- Immersion suits  
 sweat permeability and heat stress, 242
- Inca civilization, 223  
 alpacas bred for wool, 136  
 maize a food staple, 249  
 Moseley, Michael, 165  
 vicuña herded for wool, 136  
 wool and cotton economy, 166
- India, 80, 159–60, 176, 221. *See also* Indian subcontinent; Indus Valley  
 Andaman Islands, territory, 221  
 Kharbone, 160
- Indian hemp  
 North American textile fiber, 169, 171
- Indian subcontinent  
 agriculture, 160, 174  
 Andaman Islanders, origin, 221  
 cotton spread to Africa, 176  
 cotton spread to China, 159  
*Harappan civilization*, 160  
*Homo sapiens* migration route, 80, 237  
 scrapers late, 83  
 spindle whorls, 160  
 textiles fibers, 160
- Indonesia  
 early cave paintings, 237  
 hand stencils, 95  
 Hobbit, Flores, 115  
 Java Man, 80  
 Leang Sassing cave, 96
- Indus Valley. *See* agriculture, centers; Indian subcontinent
- Industrial Revolution, 5, 13, 15, 217  
 analogy for advent of agriculture, 226  
 clothing production, 13  
 computer revolution more profound, 255
- Ingold, Tim  
 domestication concept, 211
- Intelligence, 13, 230  
 artificial, 217  
 human, 5, 13, 222, 230  
 merging with artificial, 217
- Invisible Sex, The*  
 Adovasio, Soffer and Page, 227
- Iraq  
 Gilgamesh, new fragment, 229
- Irkutsk, Russia  
 ice age pendant with clothes, 27
- Iron  
 Age, 15  
 machines, Industrial Revolution, 14
- Islamic societies  
 simple (loose) clothes, 124
- Isolation  
 Andaman Islanders, 3, 221  
 foragers and agriculture, 84, 174, 182, 223, 225  
 Tasmanian Aborigines, 109, 115, 225, 240–1
- Israel  
 cloth fragments, early, 128  
 copper awl, early, 15  
 cultivation, earliest claims, 202  
 fire use, early evidence, 224  
 goat mortality profile, 247  
 lead artifact, early, 226  
 Nahal Hemar Cave, 128  
 Ohalo II site, 140, 202, 208, 245  
 Qesem Cave, tools, 72–3, 241  
 sedentism, early signs, 140, 208  
 spindle, oldest, 154  
 Upper Paleolithic, early, 104  
 wild legumes and barley, 151

## 314 INDEX

- Jaguars  
Teotihuacan, fed on maize, 162
- Japan. *See also* Jomon culture, Japan  
agriculture from mainland Asia, 146  
domesticated plants, 146  
Jomon culture, 252  
Okhotsk culture, 252  
Osaka, LGM temperatures, 40
- Jomon culture, Japan  
Mesolithic, 204  
weaning age, 252
- Jute. *See also* bast fibers  
China, textile fiber, 159
- Kalahari region, southern Africa  
San peoples, 12
- Kammaing, Johan  
Australian archaeologist, 237
- Kangaroo skins  
clothing, southern Australia, 27, 61
- Kaross  
San garment, 61–2, 225
- Kelabit people, Borneo  
rice cultivation, 254–5
- Kelly, Robert  
hunter-gatherers as a category, 223  
sedentism, 253
- Kennedy, Jean  
wild banana seeds, 251
- Khargone, India  
tribal cotton farmer, 160
- Khoe-San, southern Africa. *See also* Hottentot;  
hunter-gatherers; pastoralists; San peoples  
genetic study, 221
- Khok Phanom Di, Thailand  
early Neolithic site, 254
- Klein, Richard  
neural hypothesis, 237
- Knotweed  
North American crop, 167, 246
- Koobi Fora, Kenya  
early fire use, 224
- Koran, The. *See* Quran
- Korean peninsula  
transition to agriculture, 246
- Korean War  
frostbite injuries, 53
- Kosipe, Papua New Guinea  
early site in highlands, 251
- Kostenki, Russia  
early eyed needles, 77, 234  
fox and wolf furs, evidence, 78  
LGM climate, 207  
mammoth bone dwellings, 207
- Kuhn, Steven  
emergence of blades, 240
- Kuk Swamp, Papua New Guinea  
early agriculture, 177–8
- Kurzweil, Ray  
virtual reality, 255–6
- Kuzmin, Yaroslav  
Sungir burials, age, 238
- La Draga, Spain  
early European textiles, 129
- Lactational amenorrhea. *See also* breastfeeding;  
population growth; weaning  
population control, 192–3
- Lamarck, Jean-Baptiste  
giraffe, long neck theory, 35
- Language  
evolutionary advantage, 5  
fails to explain human success, 13  
origins, 222, 225, 237  
sign, hand stencils, 94–6
- Lapita culture, Melanesia  
spread of pigs and pottery, 251
- Lascaux Cave, France  
ice age paintings, 93
- Leang Sassang, Indonesia  
cave with hand stencils, 96
- Leather. *See also* shoes; textiles, advantage over  
animal skins  
gloves, 96  
horse domestication, 203  
Iceman's clothing, 95, 127  
imitation, 226  
moisture permeability, 243  
Sungir burials, 238  
wind protection, 126
- Lebanon  
blade technology, 104
- Legumes, 149, 151–2, 219  
chickpea, 149  
fodder crops, 150, 155, 197  
lentils, 149, 152  
peas, 151–2  
wild, poor food return, 151–2
- Lentils, 149, 151–2, 246. *See also*  
legumes
- Leprosy. *See also* hand stencils  
rarely causes finger loss, 238
- Lespugne, France  
ice age figurine with garment, 128
- Levallois. *See also* tools, classification issues  
tool-making technique, 70–1
- Levant, the. *See also* agriculture, Southwest Asia;  
Israel; Syria; Turkey  
beads, early, 92  
figurine, modest girdle, 124  
flax in early agriculture, 247  
linen threads, early, 244  
mice, sign of sedentism, 202, 253  
Natufian culture, 210, 253–4  
sedentism, 254  
terminal Pleistocene foragers, 244



- LGM (Last Glacial Maximum). *See also* Marine Isotope Stages (MIS), MIS2  
 agriculture, early signs, 211  
 aridity, 58, 243  
 Beringia, 87, 243  
 bone awls, Australia, 74–6, 240  
 China, oldest pottery, 202  
 clothing requirements, 58, 74, 86  
 enclosure, human, 211–12  
 eyed needles  
   China, 76–7, 156  
   Europe, 77–8  
   Siberia, 86, 236  
 MIS4 almost as cold, 88  
 no present-day analogues, 46  
 Papua New Guinea, 180–1, 251  
 population levels, 86–7, 207  
 Russia, shelters, 207  
 sedentism, early signs, 203  
 Siberia, humans present, 86  
 stable climates, 232  
 Tasmania, 74, 79, 106–10  
 temperatures, 7, 40–1, 181, 207, 251  
   seasonal variations, 77, 223  
 wind chill and extremes, 42–3, 46, 207  
 Liang Bua cave, Flores  
   Hobbit site, 241  
 Libya  
   Barbary sheep herded, 175  
 Lice  
   clothing origins, 113–14  
   gorillas and nakedness, 37  
   theory of nakedness, 29  
 Linen. *See also* flax  
   ideal fabric in hot climates, 243  
   oldest garment, Egypt, 176  
   Syria, early fragment, 154  
   Turkey, early fragments, 128  
 Linseed  
   food from flax plants, 152  
 Little Ice Age  
   agriculture averted full ice age, 38  
 Liu, Li  
   food in Chinese agriculture, 248  
 Llama, 12, 135–6, 161, 165–6, 195, 203, 246  
   pack animals and transport, 166, 195  
   skins used by Fuegians, 12  
   wool a primary product, 166  
 Loincloths  
   Göbekli Tepe, early modesty, 243  
   San peoples, 225  
   Solomon Islands, 180  
 Longgupo, China  
   hominins, early, 235  
 Loom. *See also* spindle whorls; textiles  
   Ancient Egypt, vertical, 176  
   backstrap, 180, 202  
   China, early agriculture, 254  
   Chinese, complex, 157  
   Mexico, early, 162  
   perishable materials, 154  
   sedentism, sign, 202  
   weights, 148, 154  
 Lord of The Flies  
   novel, William Golding, xvii  
 Lourandos, Harry  
   social complexity a continuum, 223  
 Lubbock, John  
   textiles in early Neolithic, 254  
 Ma'anshan Cave, China  
   early bone awls, 76  
 Madjedbebe (Malakunanja II)  
   early Australian site, 237  
 Maguay. *See also* agriculture, Mesoamerica; textiles  
   domestication centers, omitted, 246  
   Mexico, 162–3  
   Peru, possible early textile, 128  
 Maize, 134, 162, 166, 169, 173, 249  
   domestication, slow, 162, 246  
   fodder crop, 162, 173  
   North America, turkeys, 173  
   Peru (llamas, dogs, guinea pigs), 166  
   late food crop, 161, 163, 169, 249  
   poor human food in wild state, 139  
   spread into North America, 171, 249  
 Malaysia  
   rainforest foragers, 144, 211, 254–5  
 Malta site, Russia  
   ice age figurines with clothes, 26  
 Maltravieso Cave, Spain  
   hand stencils, 238  
 Manila hemp. *See* abacá; banana; sisal hemp  
 Manioc  
   Amazon domesticate, 167, 246  
 Maonan people, China  
   complex wooden loom, 158  
 Marajó Island, Brazil  
   spindle whorls, 167  
 Marciniak, Arkadiusz  
   wild sheep have no wool, claim, 247  
 Marine Isotope Stages (MIS), 40  
   MIS1 (Holocene), 45, 115, 121, 147, 167, 170, 174, 195–6, 209, 213, 223, 237, 243, 254  
   MIS10, 72, 235  
   MIS103 (start of Pleistocene), 40  
   MIS11, 72, 83, 111, 235  
   MIS12, 235  
   MIS14, 112  
   MIS18, 82  
   MIS2, 7, 40–1, 43, 46, 58, 72, 74–5, 76, 77, 79, 86–7, 156, 180–1, 202, 204, 207, 211–12, 232, 240, 243, 251  
   MIS20, 235  
   MIS3, 43, 45–6, 92, 100, 235, 243  
   MIS4, 78, 87, 89, 112, 232, 235

- Marine Isotope Stages (MIS) (cont.)  
 MIS5d, 232, 235  
 MIS5e, 40  
 MIS6, 235  
 MIS7, 240  
 MIS8, 72, 112, 235  
 MIS9, 78, 82
- Marine shells  
 hide-scrapers, 67
- Marx, Karl  
 evolutionary view of culture, 223
- Mastitis  
 discourages breastfeeding, 253
- Materialism. *See also* psychology; social complexity  
 agriculture, values, 143–4  
 clothes, attachment, 214, 216  
 foragers, few possessions, 3, 205  
 social complexity, 216
- Mayan civilization  
 maguey used for clothes, 128
- Maygrass  
 North American crop, 167, 171, 246
- McAfee, Andrew  
 computer revolution, 255
- McBrearty, Sally  
 human separation from nature, 237
- Meadowcroft, USA  
 early site with textiles, 169
- Melanesia. *See also* Lapita culture, Melanesia; Papua  
 New Guinea; Solomon Islands  
 banana fiber garments, 180  
 Denisovan genetic trace, 236  
 horticulture, 187  
 taro, early processing, 177
- Melbourne, Australia  
 Coranderrk Aboriginal mission, 30  
 Robinson, Chief Protector, 205
- Men of the Earth*  
 Brian Fagan, xviii
- Merino sheep  
 grass and legumes, ideal diet, 150
- Mescal  
 alcohol distilled from agaves, 162
- Mesolithic, 140, 168, 191, 193, 203–4, 246, 250, 252,  
*See also* agriculture; hunter-gatherers;  
 Neolithic; sedentism  
 Jomon culture, Japan, 204, 252  
 Korean peninsula, 246  
 North America, 168  
 northern Europe, 246  
 Okhotsk culture, 252  
 Pacific Coast, North America, 250  
 Point Hope, Alaska, 253  
 resistance to agriculture, 246  
 Southeast Asia, 144  
 weaning practices, 252
- Mesopotamia. *See also* Sumer; Uruk  
 civilization, first, 18, 217  
 Epic of Gilgamesh, 18–19, 229  
 spindle whorls, 148  
 textile clothing, 227
- Metal artifacts  
 oldest, copper awl, 15
- Metallurgy  
 Aegean civilization, 255
- Mexico. *See also* agriculture, Mesoamerica  
 agave varieties grown, 162  
 rabbits kept for fur, 162
- Mexico City  
 Teotihuacan, ancient city, 162
- Mezmaiskaya Cave, Russia  
 early eyed needle, 77–8, 234
- Mice. *See also* Tchernov, Eitan  
 sedentism, 142, 155, 202, 245, 253–4
- Microblades, 241. *See also* blades  
 barbs on projectiles, 87  
 derivative technology, 115  
 tools of the Hobbit, 241
- Milankovitch, Milutin  
 orbital theory of ice ages, 38
- Milk. *See also* Secondary Products Revolution  
 camel, 177  
 cattle, 155, 195  
 formulas, discourage breastfeeding, 253  
 goats, 247  
 horses, 203  
 pastoralists, 203  
 sheep, 247
- Milkweed, 169  
 fiber plant, North America, 171–2  
 fibers spun without spindles, 171  
 stem used for ropes, 171
- Millet, 142, 157, 173, 204, 246, 248  
 barnyard, 146  
 broomcorn, 246  
 China, early crop, 156  
 fodder crop, 156  
 foxtail, 156, 246  
 Indian varieties, 160, 246  
 pearl, 175, 246
- Missionaries  
 nakedness and clothing, 15, 144, 179
- Modesty, 17, 65, 121, 224, 227–8  
 Aborigines, Australia  
 absence, 11–12, 224  
 presence, some evidence, 225  
 archaeological evidence, 123–4  
 Barthes, Roland, 227–8  
 Carter, Michael, 228  
 clothing  
 cause of modesty, 23  
 complex clothing, 27, 65, 90–1, 112, 121  
 modesty not original cause, 10–12, 23,  
 65  
 early weaning, 193–5, 253  
 established by early Holocene, 121  
 Genesis, 19, 229  
 Göbekli Tepe, loincloths, 123

- Papua New Guinea, 180  
 San peoples, absent, 12, 225
- Mohair  
 textile fiber from goats, 148
- Mohenjo-daro, Pakistan  
 early city, 160
- Moisture problem, clothing, 57–8, 120–1, 243,  
*See also* agriculture; textiles  
 banana, advantages, 180–1  
 linen, advantages, 243
- Molodova, Russia  
 mammoth bone dwellings, 207
- Mongolia  
 local sheep domesticated, 158
- Monkeys  
 tool manufacture, 221
- Moose  
 textile fiber, North America, 169
- Morley, Iain  
 hand stencils and frostbite, 238
- Morocco  
 early Homo sapiens, 221
- Mortality rates  
 cold spells, 232  
 early agriculture, 138, 191, 244
- Moscow, Russia  
 Sungir burials, Paleolithic, 91–2
- Moseley, Michael  
 cotton in Peruvian agriculture, 165
- Mouflon. *See* sheep, mouflon
- Molting  
 sheep, new breeds, 246  
 wild sheep, wool, 148
- Mousterian. *See also* Paleolithic; tools  
 Neanderthal scraper industries, 112  
 parallels with Tasmania, 107–9, 240
- Mulberry tree  
 bark cloth, 204  
 cultivated for silkworms, 159–60
- Murabba'at caves, the Levant  
 linen threads, early, 244
- Muscovy duck, 162  
 domestication, 246
- Nahal Hemar Cave, Israel  
 early fabrics, 128
- Nairobi, Kenya  
 winter temperatures, 83
- Nakedness. *See also* clothing, definition; dress  
 Aborigines, Australian, 11–12, 54–5, 64, 227  
 Aborigines, Tasmanian, 11, 227  
 Andaman Islanders, 3, 221  
 animals, non-human, 9–10, 224  
 Barcan's view, 229  
 biological, 7–10, 28–39, 47, 85  
 Darwin's theory, 30, 230  
 skin color, 36  
 cold tolerance improved, 52  
 definition, 4, 224  
 Fuegians, 12, 225  
 Genesis, 18, 229  
 missionaries, 15, 179  
 San peoples, 12, 225  
 shame, 18, 65, 229, 253
- Nanotechnology  
 clothing, warm weather, 242
- Natufian culture, the Levant. *See also* Boyd, Brian;  
 sedentism  
 early sedentism, 210, 253  
 house mice, 253–4
- Naveh, Dannt  
 psychology of agriculture, 246
- Nazi regime  
 hypothermia experiments, 49
- Neanderthals, 5, 36, 52, 70–1, 81–2, 85, 97–105,  
 111–12, 127, 222, 230, 235–7, 239–40  
 adornment, 104–5, 230, 240  
 awls, 102, 240  
 blade tools, Châtelperronian, 85, 102–5, 109  
 Grotte du Renne, 240  
 brain size, 222  
 China, fossil traits, 240  
 cold tolerance, 109  
 cold-adapted, 52, 82, 98–9  
 Denisovans, split, 236  
 extinction, 36, 97, 100–2, 237, 239–40  
 fire, limited control, 239  
 Gibraltar, last sites, 101, 239  
 hairiness, 85, 97  
 hybrid skeleton in Portugal, 102  
 interbred with modern humans, 102, 239–40  
 Mousterian toolkits, 70–1, 83, 99, 107, 112, 240  
 ochre, body decoration, 105  
 population densities low, 239  
 simple clothing, 97–100, 100, 102, 240  
 Tasmanian comparison, 107–10, 115, 240  
 textile technology, 127
- Needles, 88, 109, *See also* awls; eyed needles  
 China, ice age, 86  
 Tasmania, 109  
 world's oldest, 88
- Nelson, Sarah  
 gender bias and clothing, 227
- Neolithic, 116, 129, 140, 143, 151–2, 157, 159–60,  
 168, 188, 191, 195, 202, 212, 244, 246–8, 254,  
*See also* agriculture; textiles
- Lubbock, John  
 textiles in early formulation, 254  
 pottery, 202  
 revolution, Childe's concept  
 psychological aspects, 254  
 textiles a feature, 254  
 textiles, poor visibility, 154
- Neoteny, 231, *See also* nakedness, biological  
 brain plasticity, 231  
 evolution of nakedness, 32–4
- Nepal, Sherpas  
 frostbite, 233

- Nettle, textile fiber. *See also* bast fibers  
 China, 159  
 North America, 169, 171
- Neural hypothesis  
 Klein's theory, 237  
*New England Journal of Medicine*  
 case of penile frostbite, 51
- New Kingdom, Ancient Egypt  
 loom weaving, 176
- New York City, USA  
 case of penile frostbite, 51  
 ice age climate, 7, 41
- Newt Kash, Kentucky  
 fiber plants in early agriculture, 171
- NGII (New Guinea II) site  
 southeast Australia, 234
- Niche construction theory (NCT)  
 agricultural origins, 211, 214, 244
- Nile River  
 early agriculture, 176  
 peak in early Holocene, 121
- Nipple stimulation  
 breastfeeding, 253
- Norfolk, UK  
 early hominin site, 81
- North America  
 clothing universal, 169  
 crops, eastern, 167–8  
 Indian hemp, 171  
 maize from Mexico, 169  
 Mesolithic, Pacific Coast, 250  
 milkweed, textile fiber, 171  
 sedentary/semisedentary, 168
- Novosibirsk, Russia  
 winter cold, interglacial, 9
- Nuer people, Africa  
 naked pastoralists, 203
- Nunamira Cave, Tasmania  
 ice age site, 107
- Nylon, 15, 51, 150, 226. *See also* plastics;  
 synthetic fibers
- Oase mandible, Romania  
 Neanderthal hybrid, 239
- Ochre, pigment. *See also* art, Paleolithic; decoration,  
 body painting  
 Africa, early, 237  
 artistic talents, evidence, 89–90  
 Australia, early, 89, 237  
 body decoration, 91, 105, 237  
 Neanderthals, 105, 240
- Ohalo II, Israel  
 agriculture, early attempt, 140, 202, 245  
 rat remains, 202, 245  
 sedentary site, early, 140, 202, 208  
 textile fibers, 140
- Okhotsk culture, northeast Asia  
 weaning age, 252
- Olduvai Gorge, Tanzania  
 shady habitat of early humans, 231
- Olmecs  
 first Mexican civilization, 162
- Ona people, Tierra del Fuego. *See* Selk'nam  
 people
- Orbital theory  
 Pleistocene ice ages, 38
- Orgnac 3, France  
 scrapers in cold climate phases, 235
- Other, concept  
 Aborigines and nakedness, 224  
 clothing as appearance, 228  
 ethnography, 223
- Oxygen isotope ratio. *See also* Marine Isotope  
 Stages  
 temperature proxy, 40, 42–3, 231
- Oyster Cove, Tasmania  
 Tasmanian Aborigines relocated,  
 205
- Paedomorphism. *See* neoteny  
 juvenile body form, 33
- Pair-bonding. *See also* Darwin, Charles; nakedness;  
 sexual selection  
 evolution of nakedness, 30, 231
- Pakistan  
 cotton threads, early, 160  
 Lower Paleolithic tools, 80–1
- Paleolithic  
 clothing technologies, 66, 99, 102–4, 107–9,  
 111–13, 234–5  
 flax fibers, Georgia, 127  
 Lower, 81, 235  
 Middle, 241. *See also* Mousterian  
 stages and clothing, 115  
 Upper, 234, 240–2
- Palm trees. *See also* sago palm  
 textiles in Florida, 170
- Papua New Guinea  
 agricultural center, 147  
 banana domestication, 177–81  
 bilums, woven bags, 180  
 clothing, 179–81, 225  
 dogs, 177  
 Goroka, temperatures, 180  
 Kosipe, early site, 251  
 Kuk Swamp, 177  
 LGM climate, 180–1  
 sago palm cultivated, 251  
 sisal hemp, 179–80  
 skirts woven by both sexes, 179  
 sugarcane cultivated, 251  
 sweet potato, 251
- Parkesine  
 first plastic, 226
- Pascoe, Bruce  
 misrepresentation of Aborigines, 183

- Pastoralists. *See also* agriculture, causes debated; Mesolithic; sedentism  
 horse domesticated, 203  
 Khoe-San, 221  
 llama and alpaca, 203  
 mobile agriculture, 203  
 Peruvian, 165–6  
 reindeer, 203  
 weaning age, 252
- Pavlov, Czech Republic  
 use-wear findings on tools, 72–3
- Payre site, France  
 scrapers in cold climate phases, 235
- Peas. *See also* legumes  
 domestication, 246  
 wild, poor food crop, 151–2
- Peking Man  
*Homo erectus*, China, 81
- Penan people, Borneo  
 psychology of agriculture, 254–5
- Penis. *See also* body shape  
 Göbekli Tepe, symbol of the wild, 213  
 length and climate, 58  
 sheaths, Papua New Guinea, 179  
 strings, Amazon basin, 167  
 susceptible to frostbite, 51–2, 233  
 Tasmania, French portrayal, 29
- PET (polyethylene terephthalate)  
 fiber-based plastic in bottles, 227
- Philippines  
 Aeta foragers, 84  
 banana fiber in traditional dress, 248
- Pigs. *See also* agriculture, commensals  
 China, early farming, 156  
 commensal domesticate, 142, 155, 201  
 Papua New Guinea, 177, 251
- Pituitary gland  
 role in lactational amenorrhea, 252
- Plastics. *See also* synthetic fibers  
 fabricated material, 214  
 invention and development, 226–7  
 recycled for clothing, 227  
 textiles, close relationship, 15
- Pleistocene. *See also* climate change; Marine Isotope Stages (MIS)  
 aridity, 7, 39, 43, 57, 121, 157, 243  
 clothing more viable, 57, 121, 126  
 climates, 7, 9, 38–47  
 clothing origins, 66–9, 73, 80, 83, 111  
 global warming at termination, 119  
 hominin dispersals, 81  
 ice ages may return, 38  
 onset, MIS103, 40  
 technological transitions, 115
- Pluciennik, Mark  
 hunter-gatherer concept, 223
- Point Hope, Alaska  
 Mesolithic community, 253
- Politics  
 Aboriginal agriculture, 183–4  
 civilization and complexity, 6, 223
- Polyester fibers  
 cotton blends, 233  
 development, 226–7  
 poor moisture control, 58
- Population growth. *See also* birth-spacing; Cohen, Mark; weaning  
 cause of agriculture, 133, 137–9, 170, 191, 245  
 cause of sedentism, 253  
 eastern North America, 250  
 mechanisms, 191–5  
 Mesolithic societies, 250  
 Paleolithic, 245  
 promoted food production, 195  
 spread of agriculture, 143, 244, 251
- Portugal  
 hybrid Neanderthal skeleton, 102
- Possum-fur cloaks  
 southeast Australia, 27, 61, 64, 75
- Pottery  
 Amazon Basin, 167  
 China, world's oldest, 202, 209  
 cord/cloth-marked, 202, 254  
 Japan (Jomon), early, 204  
 Lapita culture, Melanesia, 251  
 Neolithic definition, 15, 202, 254  
 sign of sedentism, 162, 202, 209  
 spindle whorls, 148, 152–3, 157, 254
- Price, T. Douglas  
 agricultural origins, 244–5  
 coincidences demand explanation, 245  
 new questions about agriculture, 245
- Progress social evolutionary notion  
 civilization, connotations, 223
- Prolactin, hormone  
 role in breastfeeding, 252
- Psychology. *See also* enclosure; modesty; sexuality  
 agriculture, 5, 210–12, 243  
 Civilization  
 clothing, 6, 15, 19, 65, 205  
 moral elements, 15, 18, 212  
 sublimation of sensuality, 217  
 cognitive archaeology, 206  
 enclosure and civilization, 216–17  
 modesty, effect of complex clothing, 18, 23, 27, 65, 90–1, 112, 123, 180  
 sedentism, 212–15  
 social complexity, 216
- Pubic lice. *See also* clothing, origins; lice  
 acquired from gorillas, 37
- Pulque  
 alcohol from agaves, 162
- Pumas  
 Teotihuacan, fed on maize, 162
- Pumpkins  
 Mexican food crop, 161

- PVC (polyvinyl chloride)  
 waterproof fabric, origin, 226
- Pygmies  
 body size and climate, 53
- Pygmy chimpanzee. *See* bonobo
- Qesem Cave, Israel  
 bone tools, early, 241  
 scrapers and blades, early, 72
- Quran (Koran)  
 clothing origins, 229
- Rabbits. *See also* commensalism  
 fed on maize in Mexico, 162  
 fur, insulation value, 47  
 textile fiber, North America, 169
- Rach Nui, Vietnam  
 Neolithic site, 246
- Radiocarbon dating  
 Devil's Lair, bone point, 234  
 maguey fibers, Honduras, 163  
 Neanderthal extinction, limit, 101, 240  
 Sungir burials, collagen, 238  
 Tarkhan dress, 176  
 textiles  
 Peru, world's oldest, 128  
 Russia, oldest, 128
- Ragweed, giant  
 North American crop, 171
- Ramie, textile fiber  
 China, central and southern, 159  
 rope, Hemudu, 159  
 twisted, not spun, 248
- Rast-Eicher, Antoinette  
 textile fiber identification, 248
- Rats  
 commensal domesticates, 142, 201  
 sedentism, 202, 245, 254
- Raynaud's disease. *See also* hand stencils  
 mimics frostbite, 238
- Rayon  
 artificial silk, 226
- Read, Dwight W.  
 social evolution in humans,  
 221, 230
- Recreational drugs  
 frostbite risk, 233
- Reed, David L.  
 lice and clothing origins, 113–14  
 pubic lice and nakedness, 37
- Reindeer  
 ice age, 85  
 pastoralists, 203
- Renfrew, Colin  
 civilization as insular system, 216  
 sapient paradox, 13, 206, 226  
 sedentism, 206–7  
 textiles in Aegean civilization, 255
- Ribeiro, Aileen  
 clothing origins, 17
- Rice. *See also* fodder crops; weeds  
 Borneo foragers avoidant, 144  
 China, late food staple, 156  
 poor human food in wild state, 134,  
 139  
 Thailand, reversion to foraging, 254
- Robinson, George Augustus  
 Protector in Melbourne, 205  
 Tasmanian Aborigines, 205, 253
- Roebroeks, Will  
 Neanderthal regional extinctions, 239
- Romania  
 Oase mandible, 239
- Ropes. *See also* textiles  
 banana fibers, 178  
 Chinese textiles, early, 159  
 enset fibers, Africa, 177  
 Manila hemp, 178  
 Mesolithic textiles, 204  
 milkweed, 171  
 North American textiles, 167, 169, 171  
 Paleolithic, 126, 140  
 ramie, China, 159  
 sisal hemp, 162  
 Spain, earliest European textiles, 129  
 sunflower, stem fibers, 250
- Rosemary Island, Australia  
 early house structures, 254
- Russia  
 blade industries, early, 104  
 dog domestication, claims, 141  
 eyed needles, world's oldest, 77, 234  
 LGM climates, 207  
 Novosibirsk, winter weather, 9  
 Sungir, ice age clothes, 92  
 textiles, early Holocene, 128  
 use-wear research, 234  
 weaving, ice age evidence, 127
- Rye. *See also* barley  
 early cultivation, the Levant, 124  
 fodder crop, 149
- Sago palm  
 domestication, 251  
 favored over rice, 246  
 textile fibers, 251
- Sahara desert  
 wet climate in early Holocene, 121
- Salish peoples, North America  
 dogs bred for wool, 169
- San peoples, southern Africa. *See also* hunter-gatherers  
 archaeology, 225  
 clothing, 12, 225  
 genetic studies, 225  
 modesty absent, 225

## INDEX

321

- Sapient paradox, 13, 206, 222, 226. *See also*  
agriculture, causes debated; Renfrew, Colin;  
uniqueness, human
- Sauer, Carl  
textiles in agriculture, 254
- Scarlet macaw  
bred for feathers, Mexico, 162
- Schmidt, Klaus  
archaeology at Göbekli Tepe, 243
- Schöningen, Germany  
bone tools, 241  
hide-working evidence, 78  
winter temperatures, 82, 235
- Science  
clothing, invisibility, 17  
gender bias and clothing, 17, 227  
human uniqueness, 5, 19, 230  
politics, Aboriginal agriculture, 183–4  
reductionism, 19, 229–30  
theories  
agriculture, failure, 206  
sedentism, none, 205–6
- Scrapers, 26–7, 66–7, 69–72, 75, 78–83, 85, 88, 99, 107,  
111–12, 126, 154–5, 160, 172, 234–6, 240–1. *See also* tools, classification issues
- Clark Mode 3, 242  
climate patterns in Europe, 235  
common in cold regions, 241  
complex clothing, 67  
functions, 69–72, 78, 107, 234–5  
less common in tropics, 112  
marine shells, 67  
Neanderthal toolkits, 99, 235  
simple clothing, 66–7  
Tasmania, 27, 79, 107, 240
- Sea levels. *See also* climate change  
Andaman Islands and Asia, 221  
Australia and Southeast Asia, 237  
Beringia, 87, 237  
future, uncertain estimates, 231  
PNG separated from Australia, 182, 225  
Tasmania separated from mainland, 225
- Sea otter  
Tierra del Fuego, garments, 225
- Seal skins  
Tierra del Fuego, garments, 225
- Seattle, USA  
Salish peoples, 169
- Secondary Products Revolution  
llamas a challenge, 249  
wool not in early agriculture, 247
- Sedentism, 119, 201–5, 206–10, 216–17, 222, 246  
Amazon basin, 167  
archaeological signs, 202, 253–4  
Australia, possible signs, 209, 254  
Bar-Yosef, Ofer, 245  
Boyd, Brian, 210  
causes, 205
- Chinese agriculture, 156  
clothing and enclosure, 209–10  
connections with agriculture, 140–3, 155, 172, 246  
dogs, 208  
domestication process, 212  
enclosure, environmental, 210, 212, 217  
Gamble, Clive, 222  
Hodder, Ian, 213  
Israel, early signs, 245  
Kelly, Robert, 253  
Korean agriculture, 246  
loom, sign, 202  
Mesoamerica, 162  
Mesolithic, 143–4, 193, 203–4, 246  
mice, 142, 202, 245, 254  
Natufian culture, 210  
North American agriculture, 168, 170, 172  
Pacific Coast, North America, 250  
population growth, 191  
pottery, 202  
psychological basis, 212–16  
rats, 254  
Renfrew's ideas, 206–7
- Sedge grass  
textile, oldest Russian, 128
- Selk'nam people, Tierra del Fuego  
dressing without clothes, 12
- Semenov, Sergeĭ  
use-wear pioneer, 234
- Septicemia  
frostbite, lethal outcome, 51
- Separation from nature. *See also* enclosure  
agriculture and domestication, 211–12
- Sexual selection. *See also* nakedness, biological  
Darwin and nakedness, 30, 230–1
- Sexuality. *See also* clothing, psychology; modesty  
breastfeeding, 193–5, 253  
clothing in Genesis, 18–19, 229  
control, human domestication, 212  
Epic of Gilgamesh, 18–19  
genital cover and modesty, 27, 123  
neoteny, humans hypersexual, 32–3
- Shanghai region, China. *See also* Hemudu  
silkworm domesticated, 159  
textile fragment, early, 129  
wisteria, woven, 159
- Shea, John  
climate patterns in stone tools, 241  
Paleolithic tool trends, 241  
stone tool functions, 241  
tool classification issues, 241–2  
tools of the Hobbit, 241
- Sheep, 78, 142, 150, 152, 155, 203, 244, 246, 249  
Africa, 78, 176–7  
Barbary, 175, 187  
China, 158  
domestication, 147–9. *See also* wool  
India, 160

- Sheep (cont.)  
 merino, 150  
 milk, secondary product, 247  
 molting  
   breeds, new, 246  
   primitive breeds, 135–6, 147–8, 246  
 mouflon, 243, 246  
 Soay, 246  
 wool discounted in domestication, 135, 147, 165, 244
- Sheepskin  
 Iceman's clothes, 127
- Sherpas, Nepal  
 frostbite in fingers, 233
- Shizitan, China  
 early eyed needle, 77
- Shoes  
 early evidence in ice age Europe, 86  
 Iceman, leather stuffed with grass, 95  
 leather permeable to sweat, 243
- Shuidonggou, China  
 early eyed needle, 76
- Siberia, Russia, 9, 46, 87, 104, 112, 141, 161, 237  
 complex clothing required, 236  
 Denisova Cave, eyed needle, 77, 234  
 figurines, ice age, 23–7  
 human presence in LGM, 86  
 woolly mammoths, late survivors, 124
- Siberian huskies  
 claims for early domesticated dogs, 141
- Silk  
 artificial, role in early plastics, 226  
 China, early evidence, 159–60
- Silkworm. *See also* mulberry tree  
 domestication in China, 159  
 India, independent domestication, 160
- Singularity  
 technological transition, 255
- Sisal hemp. *See also* abacá; banana; maguey; ropes  
 Mexico, 162  
 Papua New Guinea, 180  
 Peru, early textiles, 128
- Skeletal elements, animals  
 clothing evidence, 78–9
- Skin color  
 nakedness and dark skin, 36
- Slaughter patterns. *See also* agriculture, causes debated  
 sheep and goats, 148–9, 247
- Smith, Bruce D.  
 agricultural origins, 170, 211  
 North American agriculture, 170  
 poor visibility of perishables, 170–1
- Soay sheep. *See* sheep, Soay
- Social complexity. *See also* feasting hypothesis;  
 Hayden, Brian  
 adaptive in hunting societies, 221  
 agriculture precedes complexity, 138  
 Amazon basin, 167  
 archaeological approaches, 255  
 Childe's influence on concept, 223  
 complex clothing, 216  
 concept critiqued, 223  
 delayed development, 226  
 Mesolithic societies, 204, 246  
 supersedes civilization concept, 6  
 Social evolution. *See* evolution, social
- Sociobiology  
 reductionism, 229
- Sociology  
 clothing, 17, 228
- Soffer, Olga. *See also* clothing, gender bias  
 perishable technologies, 227
- Solomon Islands  
 banana fiber garments, 180  
 loincloths, 180
- Solutrean industry, Europe  
 eyed needles, LGM, 77–8
- Sorghum  
 African domestication, 250
- South Africa  
 Border Cave, 225  
 complex clothes, evidence, 87–8, 112  
 Howiesons Poort industry, 90  
 hyenas, skins removed, 78  
 San woman breastfeeding, 194  
 sheep, 176  
 Wonderwerk Cave, 224
- Spain  
 Barranco León, early site, 81, 235  
 cave lion, ice age pelt, 79  
 Cueva Negra, early fire use, 224  
 hand stencils, 94, 238–9  
 ice age art, fluorescence, 93  
 Neanderthals, late survival, 240  
 scrapers, ice age, 235  
 textile, Europe's oldest, 129  
 woolly mammoths, 239, 243
- Spanish invasion, South America  
 camelids and humans, impact, 166
- Spanish Moss  
 North American textile, 169
- Sparrows  
 commensals with sedentism, 142, 253
- Spiders  
 commensals with sedentism, 141
- Spindle whorls, 126, 148, 152, 154, 157, 160, 163, 167,  
 171, 226, 246, 248, 251, 254. *See also*  
 agriculture; textiles; tools, spindle whorls  
 Amazon basin, 167  
 China, 157, 248, 254  
 Europe, 254  
 Indus Valley, 160  
 Korea, 246  
 Mexico, 163  
 Neolithic, early, 254  
 Philippines, 251  
 Southeast Asia, 251



- Southwest Asia, 148, 226  
 Vietnam, 246  
 visibility of textiles, 152, 154, 171, 248
- Spindle, wooden  
 early, 254  
 oldest, 154
- Squash. *See also* bottle gourd  
 bee, Mexican origin, 249–50  
 eastern North America, 171  
 Mexican food crop, 161, 246  
 South American crop, 163, 246
- St. Paul Island, Alaska  
 last woolly mammoths, 243
- Steadman, Robert. *See also* wind chill  
 Apparent Temperature scale, 232
- Stone Ages. *See* Paleolithic; Mesolithic; Neolithic  
 African stages, 241  
 clothing technologies, 116
- Storage  
 food, agriculture, 138, 245
- Stringer, Chris  
 climate change and adaptation, 236  
 human brain size over-rated, 222, 241  
 the Hobbit, 241
- Suddendorf, Thomas  
 human uniqueness, 230
- Suffolk, UK  
 early hominin site, 81
- Sugarcane  
 domestication, 251
- Sulawesi, Indonesia  
 hand stencils, slender, 96  
 Torajan tribal people, 139
- Sumer  
 Mesopotamian civilization, 148
- Sunflower  
 fodder crop, 172  
 many uses, 171  
 North American domesticate, 146, 167, 171, 246  
 stalks used for textiles, 250  
 weed around settlements, 172
- Sungir site, Russia  
 ice age clothing, 91–2, 238
- Sweating. *See* thermal physiology, sweating  
 clothing problem, 49, 57–8, 120–1, 124–6, 226, 242–3  
 evolution, 7–9, 34, 36
- Sweet potato  
 domestication, 251  
 Papua New Guinea, introduced, 179, 251  
 pig fodder, 251
- Switzerland  
 Neolithic textiles, 254
- Sydney, Australia  
 Aborigines, 11, 16  
 reports of clothing, 224–5  
 hypothermia cases, 50  
 LGM temperatures, 40
- Synthetic fibers, 61, 150, 196, 214. *See also* acrylic fibers; Carothers, Wallace; cellophane; Dacron; Gore-Tex®; nylon; polyester fibers; Terylene; textiles; vinyl  
 moisture management, poor, 58, 233  
 origin of plastics, 15, 226–7
- Syria  
 blade technology, 104  
 linen cloth, early, 154  
 linseed, 152  
 rye, early crop, 149, 247
- Taiwan  
 Austronesian origins, 251  
 K. C. Chang, archaeologist, 248
- Taphonomic bias  
 textiles in agriculture, 254
- Tarkhan dress. *See also* Ancient Egypt  
 linen garment, 176
- Taro, 179, 181–2, 251  
 fodder for pigs, 251
- Tasmania, 4, 11, 27, 61, 65, 74, 78, 97, 105–10, 112, 115, 188, 193, 228  
 awls, Pleistocene, 79  
 Baudin expedition, 227  
 blades absent, 108  
 clothing, 11, 27, 61, 107–10  
 d'Entrecasteaux expedition, 227  
 Flinders Island settlement, 205  
 Kutikina cave site, 106, 108  
 nakedness, 11, 27, 121, 225  
 Neanderthal comparisons, 105, 115, 240  
 Numamira Cave, 106–7  
 Oyster Cove, 205  
 Pleistocene, 27, 78, 97, 105–10  
 scrapers, 27, 74, 107–9
- Tattersall, Ian  
 language origins, 230
- Tattoos. *See also* adornment; dress  
 form of dress, 228
- Taylor, Lou  
 dress studies, 228
- Tchernov, Eitan  
 commensals and sedentism, 202
- Technology. *See also* Paleolithic, clothing technologies; tools  
 complexity and cold environments, 236  
 food in cold environments, 87  
 hunter-gatherer clothing, 13  
 Industrial Revolution, textiles, 13  
 plastics and textiles, 15  
 singularity, 255
- Teotihuacan, Mexico  
 wild animals in captivity, 162
- Tequila  
 alcohol distilled from agaves, 162
- Terra Amata, France  
 Lower Paleolithic site, 235

- Terylene  
 first polyester fiber, 226
- Textile revolution  
 agricultural origins, 4, 130  
 thermal basis, 124, 211
- Textiles *See also* clothing, textiles; synthetic fibers;  
 thermal physiology, textiles and moisture
- Aegean civilization, 255
- Africa, 62, 175–7
- agricultural origins, 4, 116, 126, 130, 135–6, 145–50,  
 154–6, 163–6, 170, 173, 175, 178–9, 181–2,  
 188–9, 195–7, 203, 211, 247–9, 254
- animal skins, compared, 57–8, 124, 243
- archaeology, taphonomic bias, 15, 17, 26, 66, 154,  
 227, 254
- bags, 62, 127–8, 170, 180, 204
- basketry, 126, 128, 140, 152, 169–71, 204, 227
- blankets, 169–70, 173
- China, 129, 157–60, 197, 248, 251, 254
- climate change, 4, 13, 57–8, 119–21, 124, 129
- Europe, early Neolithic, 129, 254
- fiber identification issues, 159, 248
- fibers. *See* abacá; angora; banana; cashmere;  
 cotton; dogbane; enset; feathers; flax; hemp;  
 Indian hemp; jute; maguey; milkweed;  
 moose; nettle; ramie; sago palm; sedge grass;  
 silk; sisal hemp; Spanish Moss; sunflower;  
 synthetic fibers; wisteria; wool; yucca
- gendered aspects, 17, 227
- humidity, Holocene, 57, 120–1, 124, 126, 154,  
 180–1, 211, 242–3
- Indian subcontinent, 146, 159–60, 176, 251
- Industrial Revolution, 5, 13–15
- mats, 126–9, 162, 171, 249
- Melanesia, 179–81
- Mesoamerica, 121, 128, 161–3, 197
- moisture management, 58, 180–1, 242–3
- nets, fishing, 140, 143, 157, 159, 164–5, 204, 237, 246,  
 249
- North America, 167–72, 227, 250
- oldest finds, 128–9, 154, 159–60, 244
- Paleolithic, 126–8, 140, 152
- plant resources for clothes, 58
- plastics, development, 15, 226–7
- psychological aspects, 213–15
- ropes, 126, 129, 140, 159, 162, 167, 169, 171, 177–8,  
 204, 250
- Russia, oldest, 128
- South America, 128, 163–7, 197, 249
- Southeast Asia, 181, 246, 248, 251
- Southwest Asia, 147–54, 197, 226
- sweating issue, 49, 57–8, 120–1, 124–6, 226,  
 242–3
- technology  
 carbon fiber composites, 15, 226  
 dyes, 127, 164, 171, 226  
 hand spinning, 152–4, 171  
 looms, 148, 154, 157–8, 162, 170, 176, 180–1, 202,  
 254  
 spindles, 152–4, 254  
 whorls, spindle, 26, 126, 129, 148, 152, 154,  
 157, 160, 163, 167, 171, 226, 246, 248,  
 251, 254
- thermal physiology, 58, 124, 154, 180, 233, 242–3
- weave structure, 233
- wind penetration, 57, 124, 126
- Thailand  
 agricultural transition, 252  
 Khok Phanom Di site, 254
- Thermal physiology. *See also* body shape; frostbite;  
 hypothermia; nakedness, biological; wind chill
- clothing, 56–61, 96, 120–1, 124, 242–3
- cold stress, 24, 47–55, 98
- acclimatization, 52
- thermal limit, modern humans, 52
- heat stress, 7, 9, 34–6, 47, 242
- bipedalism, 34–6
- humidity, 57, 120–1, 154, 211
- sweating, 7, 47–9, 57–8, 120–1
- thermal comfort of clothes, 242
- textiles and moisture, 58, 124, 154, 180, 233, 242–3
- Thumb. *See also* body shape  
 usually spared in frostbite, 95, 238
- Thyroid diseases  
 frostbite risk, 233
- Tierra del Fuego. *See also* Fuegians  
 Darwin's visit, 12  
 indigenous clothes, 90, 225
- Timor-Leste. *See* East Timor
- Titanic*, RMS  
 fatalities, hypothermia, 51
- Tobacco  
 cultivation, North America, 146, 171
- Tools. *See also* Paleolithic, clothing technologies;  
 technology
- awls, 15, 69, 74–9, 85–6, 88–9, 91, 101–2, 104,  
 107–8, 112–13, 126–7, 154, 157, 169, 172,  
 234–6, 240
- bifaces and hand-axes, 235
- blades, 26, 67, 69–72, 78, 80, 85–6, 88, 99, 102, 104,  
 108, 111–13, 126, 154–5, 235–6, 240–2
- classification issues, 69–72, 241–2
- clothing  
 complex, 67–9, 85, 108  
 simple, 66–7, 107–8
- early hominins, 81–3, 221
- eyed needles, 26, 69, 74, 76, 86–7, 154, 156–7
- functions, 69–70, 241
- hand-axes, 235
- monkeys, tools made, 221
- scrapers, 26–7, 66–7, 69–72, 75, 78–83, 85, 88, 99, 107,  
 111–12, 126, 154–5, 169, 172, 234–6, 240–1
- spindle whorls, 126, 148, 152, 154, 157, 160, 163, 167,  
 171, 226, 246, 248, 254
- Torah*, the. *See also* Genesis  
 shame and clothing origins, 229
- Torajan people, Indonesia  
 agriculture for feasting, 139
- Turkeys. *See also* commensalism  
 domesticated for feathers, 172–3, 246

- feathers prized, 173, 250  
 Mexican commensal, 162
- Üçağzlı Cave, Turkey  
 bone awls, 234  
 ornaments, shell, 90  
 Upper Paleolithic site early, 240
- Uluzzian industry  
 southern Europe, 240
- Umbrella  
 analogy, Aboriginal clothes, 224
- Underwear. *See also* clothing, complex  
 eyed needles in ice age, 77  
 Sungir, archaeological evidence, 92
- Uniqueness, human, 19. *See also* computers;  
 evolution; Genesis; science  
 agriculture and domestication, 210, 212–13  
 civilization and enclosure, 216–17  
 clothing and separation, 19, 213–15  
 clothing unique in nature, 10  
 separation from nature, 18–19, 230, 237
- Upwelling, oceanic  
 wind strength proxy, 43–4
- Urban revolution. *See* civilization  
 Childe's concept, 223
- Uruk, Mesopotamian city  
 Epic of Gilgamesh, 18  
 spindle whorl, 148
- Use-wear. *See also* Semenov, Sergeĭ  
 awls, hide-working, 234  
 blade and scraper functions, 72–3, 234  
 multiple uses of most tools, 70  
 Russia, pioneering research, 234  
 scrapers and hide-working, 78, 99, 234–5  
 Tasmanian awls, 107  
 Tasmanian scrapers, 107
- Ust'-Ishim, Russia  
 humans spread into Siberia, 86
- Vancouver, Canada  
 Salish peoples, 169
- Vanuatu  
 banana fiber garments, 180
- Vapor resistance. *See also* clothing, moisture  
 problem; thermal physiology, heat stress  
 moisture problem with clothes, 242
- Vascular disease, peripheral  
 frostbite risk, 233
- Venus figurines. *See also* art, Paleolithic; clothing,  
 origins: archaeological evidence; figurines  
 Hottentot reference, 238
- Vicuña. *See also* camelids  
 ancestor of alpaca, 136  
 herded by Incas for wool, 136  
 hunted in early Holocene, 165  
 most valuable natural fiber, 165  
 wool exploited from outset, 249
- Vietnam  
 Rach Nui, Neolithic site, 246  
 taro fed to pigs, 251
- Vigne, Jean-Denis  
 agricultural origins, 245
- Vinyl, invention  
 waterproof fabric, 226
- Virtual reality. *See also* computers; technology,  
 singularity  
 withdrawal from nature, 217, 255–6
- Vitamin D. *See also* skin color  
 deficiency prevented by white skin, 37
- Vladivostok, Russia  
 early textile site, 128
- Walker, Michael J  
 southern European Paleolithic, 235
- Wallaby skins, Tasmania, 27, 78–9, 107, 228
- Warfare  
 early agriculture, 191
- Warraty site, Australia  
 early bone point, 76
- Water. *See also* thermal physiology, sweating  
 immersion hypothermia, 50–1  
 role in human evolution, 9, 222  
 thermal properties, 224
- Water buffalo  
 Indian subcontinent, 160, 246  
 traction animal, 195
- Watercraft  
 required to enter Australia, 237
- Watson, Irene  
 Aboriginal nakedness, 224
- Weaning. *See also* birth-spacing; breastfeeding;  
 lactational amenorrhea; modesty;  
 population growth  
 chimpanzees, 252  
 early, 192–5  
 contraception impaired, 192–3, 252  
 isotope studies, 252  
 population growth, 138, 191–3  
 foods, 196, 252  
 hunter-gatherers, 192–4, 152  
 Mesolithic, 252  
 natural age for humans, 252  
 pastoralists, 252  
 Tasmanian Aborigines, 193–4
- Weave, textile structure  
 thermal properties, 233
- Weeds. *See also* agriculture, plants  
 chenopod, 167, 246  
 commensal plant domesticates, 172  
 knotweed, 246  
 maize, 134  
 maygrass, 171, 246  
 ragweed, giant, 171  
 rice, wild, 142  
 sumpweed (marsh elder), 171  
 sunflower, 246
- West-Antarctic Ice Sheet (WAIS)  
 disintegration with global warming, 231
- Western Desert, Australia  
 foraging, food returns, 244

- Whales  
blubber as thermal insulation, 10
- Wheat. *See also* agriculture, plants  
early cultivation claim, Israel, 140  
fodder crop, 142  
Harlan's experiment, 151  
poor human food in wild state, 134, 139
- Wheeler, Jane  
llama wool a primary product, 166
- Wheeler, Peter  
nakedness and bipedalism, 34–5, 231
- White, Peter  
definitions of agriculture, 222
- White skin  
clothing effect, 37  
evolution, 36–7  
chimpanzees, 33, 36
- Willendorf, Austria  
ice age figurine, 127–8
- Wilson, E. O.  
sociobiology, 229–30
- Wind chill. *See also* Apparent Temperature  
advantage in hot climates, 124  
Africa, 80  
complex clothing benefits, 27–8, 61, 63–4  
extremes, 46  
high latitudes, 42  
index, 47–8, 233  
LGM, 207  
Neanderthals, limited tolerance, 99  
Russian shelters during LGM, 207  
simple clothes vulnerable, 62, 120, 233  
Tasmanian caves in LGM, 106  
textiles vulnerable, 126  
Tierra del Fuego, 12  
time to hypothermia, 50  
windbreaks, Australia, 54
- Windproof fabrics, technology  
permeable to sweat, 226
- Wine. *See also* alcohol  
grape domestication, 247
- Wisteria, textile fiber. *See also* bast fibers  
China, early fabric preserved, 159
- Wolves. *See also* dogs  
domestication claim, Siberia, 141  
hunted for fur, Russia, 78  
ice age settlements, 207–8
- Women's Work*  
Barber, Elizabeth Wayland, 227
- Wonderwerk Cave, South Africa  
fire evidence, early site, 224
- Wool. *See also* Secondary Products Revolution; textiles  
alpaca, 135  
camel, Africa, 176  
camelids, South America, 203  
cashmere, wool-like goat fiber, 148  
dogs bred for wool, 169  
guanaco, 165  
llama, 135, 195  
wool a primary product, 166, 249  
pastoralists, 203  
sheep, Southwest Asia, 155  
vapor permeability, 243  
vicuña, 136, 165  
wild sheep, 135–6, 147–9, 244
- Woolly mammoths  
Alaska, survived to mid-Holocene, 243  
elephants in the room, 188  
high latitude human resource, 46, 85  
Spain, late MIS3, 239, 243  
struggled in early Holocene, 124  
wool as cold adaptation, 10
- Woolly rhinoceros  
high latitude human resource, 46
- Wrangham, Richard  
cooking and human evolution, 224
- Writing  
criterion of civilization, 223  
history, beginning, 5  
weaving analogy, 214
- Xiaogushan, China  
early eyed needle, 76–7
- Xincun, China  
resistance to rice cultivation, 246
- Xolo, hairless dog  
Mexican breed, 162
- Yahgan people, South America. *See also* Darwin, Charles; Tierra del Fuego  
garments, 225  
nakedness, 12, 225
- Yams  
Amazon basin, 246  
Australian Aborigines, 182  
Papua New Guinea, 177, 181
- Yana, Russia  
eyed needles in LGM, 86
- Yangshao culture  
Chinese Neolithic, 248  
spindle whorls, 248
- Yangtze Valley, China  
early agriculture, 147, 251
- Younger Dryas, Europe  
last Pleistocene cold phase, 45
- Yucca  
textile fiber, 169, 171
- Zebu (humped cattle)  
Indian domesticate, 160
- Zeder, Melinda  
domestication research, 189, 222, 244  
many centers of domestication, 246
- Zhoukoudian, China  
cave site used by Peking Man, 81
- Zones. *See also* clothing, layers  
climate, 64  
clothing, 63–4, 99, 236  
!Kung San. *See* San peoples