

Index

- Aborigines, Australian, 236, 260
 abosomie, Ashanti, 181
 abstract materialism, 201–6
 agricultural revolution, 27
 Alexander, C., xi, 130, 146, 269, 273
 Alexandra Road estate, 24
 alpha-analysis
 see: syntactic analysis
 altar, 179, 180
 Ambo, 163 *et seq.*
 Anderson, S., 8, 270
 Apt, region of, 55
 Arbib, M., 271
 Aristotelianism, 205, 206
 army camps, 38–9
 arrangement
 of people in space, 26, 29
 of space, 27, 29
 arrangements (as systems)
 defined, 50–1, 204–5
 principles of, 253
 social systems as, 223–41
 spatial logic of, 198–222
 stability in, 218–21
 artefacts, 1
 artificial intelligence, 46
 Ashanti, 167 *et seq.*, 181 *et seq.*
 asylums, 184
 asymmetry,
 see: symmetry–asymmetry
 asynchrony, 186, 187, 191, 192, 195
 see: synchrony–asynchrony
 attribute groups, 255
 autonomy, of space, 5, 199
 axiality
 definitions, 17, 91, 96
 axial articulation, 99
 axial connectivity, 103
 axial depth, 104
 axial integration of, convex spaces,
 99
 axial integration cores, 115
 axial line indexes, 103
 axial link indexes, 100
 axial maps, 92 *et seq.*
 axial ringiness, 104, 123, 128
 axial space indexes, 101
 grid axiality, 99, 123, 128
 justified axial maps, 106
 in shrines, 181 *et seq.*
 in urban villages, 123 *et seq.*, 259
 linking to convexity, 120–1
 two step principle, 17–18
- banks, 184
 Barley, M. W., 273
 Barnsbury, 123 *et seq.*
 beady ring forms, 10, 11, 17, 58, 63, 83,
 90, 212, 215 *et seq.*, 221
 computer-generated, 209 *et seq.*, 219
 et seq.
 Bedouin, 177
 Beguin, 63
 Bentham, J., 188
 Bernstein, B., 21, 161, 196, 261, 270,
 271, 273, 274, 275
 bi-card, 208 *et seq.*
 bi-permeability, 147, 181, 186
 Bororo, 93, 180, 213 *et seq.*
 boundaries
 definition, 73 *et seq.*
 fact of, 144
 lack of, in settlements, 57–8
 logic of, 259
 nature of, 143–7
 Bourdieu, P., x, 203, 269, 274
 buildings
 as artefacts, 1
 bureaucratic, 191 *et seq.*
 ceremonial, 22
 elementary, 176–99
 everyday, 97
 exteriors, 19
 and genotypes, 143–75
 as plans, 3, 14
 as social objects, 2, 9
 public, 97
 as space, 1, 2
 reversed, 183–97
 types, 183
 -space indexes, 101
 bureaucracies, 188 *et seq.*
 Burnett, J., 158, 273
- Cameroun, 63
 carrier space, 66–80, 90–140, 146
 et seq.
 Carter, H., 273

Index

277

- categories, 16, 19, 21, 41, 97, 161–2,
 165–6, 180, 194
- cells
 aggregations, 9, 10, 59–61, 209
 et seq., 219
 elementary, 19, 176
 open and closed, 59–60 et seq., 66
 et seq., 176, 181–2
 primary, 95 et seq., 143, 185–6
- central paradox, 259 et seq.
- ceremonial centres, 22
- ceremonial fund, 237, 240, 264
- ceremony, 7, 174, 236, 252, 254
- Chapman, D., 158, 273
- church, 181–2
- clans, 250
- Clarke, D. L., x, 269
- classes, social, 214, 240, 257 et seq.,
 263 et seq.
 as differential solidarities, 240
 men and women as, 240, 241, 249
 spatial dynamics of, 240–1
- climate, 4
- cognitive theories (of space), 7
- combinatorial explosion, 86
- communitas, 182, 187
- compounds, 63, 132–3, 242 et seq.
- computer-generated
 beady rings, 209 et seq., 219
 movement patterns, 24
 social relations, 223–34
- concavity, 75, 98
- constituted space, 105, 115
 continuously constituted, 106, 114
- constitutive-representative distinction,
 96, 180
- continuum assumption, 144
- control, syntactic, 14, 15, 16, 18, 146,
 147, 153, 158, 165–6, 185–8, 192–6
 definition, 109
 convex, 113
 cores, 116 et seq.
 interface of, 185 et seq.
 local, 122
- control, social, 21, 261
- convexity
 definitions, 17, 91, 96
 articulation, 98
 building-space indexes, 101
 converse decomposition map, 106
 converse interface map, 105
 decomposition map, 105, 129, 131
 depth from building entrances, 102
 grid convexity, 99, 123
 interface map, 104
 justified convex map, 106
 integration from building entrances,
 113, 123, 128
 numerical properties, 113–15
 ringiness, 102
 and axiality, 120–1, 259
 in urban villages, 126
- Conzen, M. R. G., 273
- correlation of space and movement, 24
- correspondence–noncorrespondence,
 6, 41, 141, 255–61, 268
- Christaller, W., xii, 269
- deep structure, 198
- defensible space, 140, 269
- department stores, 183
- depth, syntactic, 108 et seq.
- description, general problem of, 26,
 198–9, 222, 259–60
- description centres, 43, 203 et seq.
- description retrieval, 37, 41–4, 50–1,
 204 et seq., 206 et seq., 225, 231,
 239, 259
- description, as syntactic property, 92,
 96, 108, 170
- descriptions
 compressed, 53–5, 76, 215
 control of, 222
 global, 37, 41
 pathology of, 185 et seq.
 perpetuation of, 45
 retrievability of, 45
 stabilisation of, 189
 short and long, 13, 208 et seq.
- descriptive systems, 212, 217, 221, 257
 et seq.
- design
 moral science of, 28
 distributed, 34
- determination, social and economic,
 199–200, 206, 271–2
- diamond-shaped pattern, 111, 112
- discourse, architectural, 2, 3
- dispersion, 5, 249
- distributed–nondistributed
 definitions, 11, 14–16, 34, 62–6, 69–
 80, 94, 148–55
 in building analysis, 148–55, 159,
 163–75, 183–97, 243
 in relation to social categories, 16,
 150 et seq., 163–75, 183–97, 243
 in settlement analysis, 94, 96, 106,
 117, 132, 138, 253, 263, 266
 in social relations, 248, 255, 265
- doctor's surgery, 191 et seq.
- Douglas, M., 269
- duality, 216–17
- Durkheim, E., 4, 18, 22, 220, 269, 270,
 271, 274
- ecological areas, 4
- elementary formulae, 77, 78, 221
- elementary generators, 12, 52, 66–81,
 216–17
- elementary structures, 52
- Elsasser, W., 85–6, 272
- encounter patterns, 200, 222
 spatial logic of, 223–41
 formal and informal, 224
 differential, 229
- encounters, 18, 20, 222
 probabilistic, 20, 235, 253, 256–61
 deterministic, 20, 256–61

encounters (*contd*)
transpatial, 231, 247
encounter space, 252, 254, 256, 268
environment, 37
transformation of, 2
as object, 7
as social behaviour, 9
see also: man–environment paradigm
equivalence classes, 88, 218
estates, 23, 28, 263, 266
estate syntax, 70–1, 78, 80
ethnic domains, 48

factories, 37 *et seq.*, 183, 184
Faegre, T., 177, 273–4
fine-tuning (of space), 98, 193–4, 197
fire, sacred, 166
Fortes, M., 242 *et seq.*, 274
Fourier, C., 266
frame groups, 255
Fraser, D., 271
Friedman, J., 269
function, 1

gamma-analysis,
see: syntactic analysis,
gamma maps, 147 *et seq.*
garden cities, 266
generation
of global form, 11, 52–81
of structure, 50
as dimension of systems, 212, 221,
257 *et seq.*
genotypes–phenotypes, 12, 13, 38, 42,
154, 160, 173, 174, 175, 178, 181
et seq., 198, 208 *et seq.*, 266
biological concept of, 42
inverted genotype, 44
properties of settlements, 123 *et seq.*,
138–40
genotypical trends, 150
genotypical stability, 204
new urban genotype, 138–40, 266
geometry, 4, 15, 30, 47, 150
Ghana, 4, 242 *et seq.*
Giddens, A., x, 269, 270
Gips, J., xi, 269
global form/order, 9, 10, 11, 24, 35, 82,
90–142, 216
local-to-global, 21, 34, 36, 45, 84, 197,
216, 240, 259–60
global-to-local, 21–2, 197, 259–60
g-models–p-models, 210 *et seq.*, 235
et seq., 247 *et seq.*, 256–61
Goldin, G., 185, 186, 274
graphs, 14, 147
justified, 14
adjacency, 150
grids
deformed, 18, 90
orthogonal, 99
growth, pathways of, 257 *et seq.*
g-stability–p-stability, 218 *et seq.*, 235
et seq., 252–4, 265

guilds, 254

Hacilar, 64
hard solution, 266 *et seq.*
Hardoy J., 62
hide-and-seek, 37, 87
hierarchy, 5, 28, 143, 186, 187, 190,
245, 249, 255–6, 263, 265
Hobbes, T., 270
Hodder, I., x, 269
Holloway, S. E. T., 271
Hopi, 250 *et seq.*
hospitals, 184, 186, 192 *et seq.*
houses, 15, 20, 95, 145, 155–63
Howard, E., 266

ideography, 12, 52, 66–80
ideology, 20, 21, 222, 257 *et seq.*
Ik, 132–3
individuals, 82, 84, 88, 144, 203, 208
et seq., 210, 240
individuality, 85, 155
inequality
in buildings, 193 *et seq.*
of classes, 257 *et seq.*, 264 *et seq.*
inertia postulate, 205
indeterminacy, 54, 189
infirmity, 185
inhabitants–strangers, 17, 18, 19, 24,
29, 82, 95, 123, 140, 146
inhabitants–visitors, 19, 146, 154, 155,
163–75, 177–98
inside–outside, 11, 12, 19, 143 *et seq.*,
160–1, 174, 259
instrumental sets, 39
integration–segregation, 16, 23, 28, 96,
155, 157, 164, 169
measure of integration, 108
see: relative asymmetry
mean integration from all points,
109, 123, 128, 152, 172
integration from building entrances,
113, 123, 128, 139
integration cores, 115, 123, 129
integration from outside, 139, 152,
155–63
interchangeability, 13, 214 *et seq.*, 243,
249
interface, 17, 19, 82, 90, 95, 140, 146–7,
167, 170, 174
interface map, 104, 137–8
converse interface map, 105
types of, 176–97
inter-object correlations, 214–15
interpretation, systematic, 122 *et seq.*

Jacobs, J., 140, 273
Jamous, H., 274
Japan, 255 *et seq.*
Jones, Liz, 58
justified maps, 106, 149

Index

279

- Kac, M., 47, 271
 Khaldun, Ibn, 270
 kinship, 200–1, 237, 251–2
 Koyré, A., 31, 270
 knowables, 46, 66
 knowability, 45 *et seq.*, 198, 208
 kraal, 65, 163 *et seq.*
 see: syntax
 Krüger, M. T., 273
- labels, 150–1, 154, 214 *et seq.*, 231
 et seq.
 landscaping, 98
 Langer, S., 271
 languages
 natural, 40, 45–51
 morphic, 45–51, 66, 198–9, 224
 mathematical, 45–51
 Leaman, A., 270, 271
 Le Corbusier, 266
 Leibniz, G. W. von, 31, 270
 Lévi-Strauss, C., x, 4, 93, 202, 269, 274
 Locke, J., 270
 London, 18, 23, 24, 27, 123, 133 *et seq.*,
 254
 Lösch, A., xii, 269
- magic, 30
 Malinowski, B., 217, 274
 man–environment paradigm, 9, 268
 market-places, 79
 Marquess estate, 126 *et seq.*
 Marx, K., 270
 Massachusetts Institute of
 Technology, 8
 master card, 209 *et seq.*
 mathematics, 12, 30, 47, 94
 imperfect, 48
 see also: languages
 mausoleum, Ashanti, 168, 172
 Mauss, M., 4
 matrilineages, 251–2
 matriliney, 175, 231, 246–54
 matrilocality, 253–4
 Maya, 22, 62–3
 McCluskey, J., 89, 272
 McCulloch, W., 47, 271
 meaning, 1, 2, 5, 8, 13, 14, 16, 39,
 in morphic languages, 50
 as stably retrievable description, 50
 meeting places, 21, 164 *et seq.*
 Mellaart, J., 64
 mental models, 38
 Michelson, W. H., ix, 269
 Michie, D., 46, 271
 midges, cloud of, 34–5, 36
 Mindeleff, V., 250, 274
 mixing mechanisms, 252, 258
 Mongols, 179
 Morgan, L., 201, 274
 morphic languages
 see: languages
 morphogenesis, 205
 morphology, 45, 53
 morphological types, 12
 Moundang, 63
 Mumtaz, B., 36, 270
 museums, 183
 Musgrove, J., 270
 mythologies, 7
- Nakane, C., 255 *et seq.*, 275
 Narrenturm, 187
 Ndembu, 242 *et seq.*
 neighbours, 226 *et seq.*
 Neuman, J. von, 46–7, 271
 Newman, O., 6, 130, 132, 144, 269, 273
 Newton, Sir I., 31
 nondistributed
 see: distributed–nondistributed
 'no neighbours' model, 132, 138, 152,
 153
 see: tree, everywhere branching
 noninterchangeability, 41, 69, 214 *et*
 seq., 247
 see: interchangeability
 non-order, 5, 10, 14
 numbers, 37, 46–7, 87, 89
- object, elementary relations of, 66
 occupants–outsiders, 16
 see: inhabitants–strangers;
 inhabitants–visitors
 offices, 184, 194
 Oliver, P., 270
 Omarakana, 217
 open-plan, 194 *et seq.*
 operating theatres, 193
 Oraibi, 250–1 *et seq.*
 organic patterns, 4
 organisational forms, 190 *et seq.*
 ostensions, 40
 O'Sullivan, P., 270
 Owen, R., 266
- pack of cards, 207 *et seq.*
 Panopticon, 188
 paradigms, 6, 268
 of spatial organisation, 140 *et seq.*
 see: man–environment
 pathology
 urban, 2, 3, 6
 environmental, 28
 of descriptions, 185
 of individuals, 185
 of society, 185, 187
 patriarchs, 238, 243
 Peloille, B., 274
 permeability, 14, 147, 177
 map, 105, 138
 personal–positional systems, 161–2
 phenotypes, 208 *et seq.*
 primacy of, 205
 see: genotypes–phenotypes
 Piaget, J., 47, 271
 p-models
 see: g-models–p-models
 police stations, 184

policing space, 140
 politics, 222, 239, 257 *et seq.*
 polyfocal net, 218, 234, 239, 248, 252, 254
 population
 density, 18
 growth, 258 *et seq.*
 postulates for settlement space
 analysis, 94 *et seq.*
 power, 21, 196
 premises, 147 *et seq.*
 prisons, 184
 production, 202, 222, 257 *et seq.*, 264 *et seq.*
 professions, 188 *et seq.*
 Prussin, L., 4, 243–4, 269
 p-stability
 see: g-stability–p-stability
 purposes, 37
 pyramid-shaped pattern, 113, 114

 quantification, 14
 Quine, W. van O. 4, 271

 randomness, 9, 10, 13, 34–5, 205, 215, 244
 and structure, 36, 222
 random elimination, 220
 random process, 11, 66–80, 205, 212, 222
 restrictions on, xi, 10, 12, 14, 34, 35, 52, 55, 206
 rationality, dogmatic, 30–1
 Rattray, R. S., 167, 273
 recursion, 77–80
 reductionism, 201
 reflexive knowledge, 185
 regularity, 212
 see: singularity
 relational identity, 209
 relative asymmetry, 15, 16, 108–140, 152–75, 234
 defined, 15, 16, 108–9
 see: integration; symmetry–asymmetry
 Renfrew, C., x, 269
 representation, problem of, 89–90
 reproduction, 202, 204 *et seq.*, 222, 264 *et seq.*
 response, subjective, 38
 ringiness, 102–40, 148–75, 176–97, 229, 234
 defined, 102
 convex ringiness, 102
 axial ringiness, 104, 123, 128
 relative ringiness, 153 *et seq.*
 ring street, 10
 see: syntax
 ritual, 35, 218, 244, 245, 247, 248, 250
 Rowlands, M. J., 269
 rule-governed creativity, 201

 schools, 184, 195 *et seq.*
 secondary boundaries, 95

semantics, 13, 16, 55, 161, 223
 semantic illusion, 206–22
 semantic information, 214
 semi-islands, 235 *et seq.*, 247
 semiology, 8
 Service, E. R., 6, 236–7, 270, 274
 settlement forms, 4, 10, 17, 57
 analysis of, 82–142
 sexes, relations of, 164, 168–75, 177 *et seq.*, 224–41, 249 *et seq.*
 shops, 176
 shrines, 21, 180 *et seq.*, 191, 245
 singularity, 212, 238
 size, 89
 see: synchrony–asynchrony
 social classes
 see: classes
 social determinant, 199
 social knowledge, 145, 146, 187
 social morphology, 201
 social solidarities, 18, 20, 142, 145, 154, 158, 160–2, 177 *et seq.*, 223 *et seq.*
 defined, 224
 differential, 163, 170, 223–41, 249, 253, 256–61, 264 *et seq.*
 organic–mechanical, 18, 20, 22, 220–1
 spatial, 145, 160–1, 174–5
 transpatial, 145, 159, 161, 174
 societies
 as discrete systems, 32
 as collections of individuals, 32–3
 as organisms, 33
 as encounter probabilities, 234–41
 as spatial systems, x, 29–42, 201–6, 242–61
 sociology, 29, 201, 206–7
 of buildings, 2
 sociological theory, 32–3, 201, 204
 spatial, 6, 33
 sodalities, 7, 237
 soft solution, 267
 Somerstown, 133 *et seq.*
 space
 as anthropological study, 3–5
 as by-product, 4, 5, 27
 domestic, 143, 155 *et seq.*, 162–3
 deepest, 163, 180 *et seq.*
 as external projection, 4, 5
 labelled, 15
 problem of, 14, 26–51
 and social structure, 4, 8
 social theory of, 19, 29, 33, 224
 as theoretical discipline, 3
 three-dimensional, 272
 spatial concepts in children, 47
 spatial–transpatial groups, 41, 42, 141, 231 *et seq.*, 256–61
 spatial–transpatial growth, 258 *et seq.*
 spatial–transpatial integration, 40, 51, 66, 237 *et seq.*
 spatial laws
 as natural laws, 36, 271–2
 and global form, 37

Index

281

- spatial order, 4, 7, 9, 13, 14, 27
 stage door effect, 182, 192
 state, spatial definition of, 260
 Stiny, G., xi, 269
 strangers
 see: inhabitants—strangers
 streets, 18, 28, 63, 79, 95, 186, 267
 Strehlow, T. G. H., 275
 structuralism, 198–222
 structural stability, 34, 44
 style, ix, 1, 2
 subject–object problem, 7, 9
 supergrid, 273
 superstructure
 ideological, 222
 juridico-political, 222
 surveillance, 140
 symmetry–asymmetry, 11, 14, 96, 215
 definitions, 11, 12, 62, 66–80
 in building analysis, 148–75
 in settlement analysis, 94, 96–140
 in social relations, 248 *et seq.*, 265
 synchrony–asynchrony, 92, 96, 170,
 180 *et seq.*, 186, 187, 191–2, 195
 syntactic analysis
 of building interiors (gamma-
 analysis), 143–63
 of settlements (alpha-analysis), 82–
 140
 syntax, 13, 63, 161, 199, 205
 defined, 48, 66
 cluster type, 68, 78–80, 216, 244
 clump type, 68, 78–80, 216, 225
 et seq.
 concentric type, 68, 78–80
 central space type, 70, 78–80, 216
 estate type, 70, 78–80
 ring-street type, 71, 78–80, 216
 kraal type, 71, 78–80
 glued together, 11, 76
 bound together, 11, 76
 syntactic nonequivalence, 77
 singulars and plurals, 65
 subjects and objects, 65
 systems
 artificial, compared to natural, 36, 44,
 54
 discrete, 32–4, 39, 44, 50, 204
 spatial continuity of, 36, 204
 of transformations, 53
 Tallensi, 242 *et seq.*, 274
 technology, 4
 tents, 177 *et seq.*
 territoriality, 6, 7, 268
 theatres, 182
 Thompson, J. D., 185–6, 274
 Thom, R., 33, 199, 270, 274
 thresholds, 19, 75
 Thunen, J. H. von, xii, 269
 Tikal, 22, 62, 63
 Tonnerre, 185–6
 topography, 4
 topological relations, 37, 46–7, 87
 transpatial, 20, 45, 51, 66, 141, 162,
 173–5, 216 *et seq.*, 220–2, 247
 et seq., 256–61
 defined, 40–1
 groups, 42, 141, 231 *et seq.*, 256–61
 growth, 258 *et seq.*
 integration
 see: spatial–transpatial integration
 solidarities
 see: social solidarities
 and boundaries, 144
 transpatial space, 161, 178
 transitivity–intransitivity, 69
 tree, everywhere branching, 133
 see: ‘no neighbours’ model,
 Tuareg, 178
 Turnbull, C., 273
 Turner, V., 182, 242 *et seq.*, 274
 Ucko, P. J., x, 269
 Ulam, S., 47, 271
 unipermeability, 147, 181, 186
 universal and particular terms, 40
 urban villages (of London), 18
 urban hamlets (of Vaucluse), 10
 uterine sibling groups, 247–8
 Var, 90
 Vaucluse, France, 10, 55–6, 59
 vertical principle, 255
 visitors
 see: inhabitants–visitors
 village greens, 12, 79, 221
 Waddington, C. H., 274
 Walton, J., 163, 273
 Weber, M., 270
 Weyl, H., 29, 270
 Willmott, P., 254, 274
 Wolf, E., 237, 274
 Young, M., 254, 274
 yurt, 179 *et seq.*
 Zulu, 65