

Index

- A-regular, 109
- associated bundle, 24
- atlas, 11
- attaching sphere, 137

- Baire property, 104
- belt sphere, 137
- Bernoulli numbers, 266
- boundary, 29
- boundary sum, 66
- bump function, 10
- bundle map, 24

- characteristic number, 322
- chart, 11
- Chern class, 262
- closed manifold, 29
- cobordism, cobordant, 129
- codimension, 19
- cohomology operation, 328
- collar neighbourhood, 32
- compact-open topology, 102, 306
- component, 16
- cone, 316
- connected, 15
- connected sum, 65
- coordinate neighbourhood, 9
- core, 137
- corner, manifold with corner, 30
- covering homotopy property CHP, 317
- critical point, critical value, 96
- cross-section, 24
- cutting, 64
- CW-complex, CW-pair, 315

- deformation retract, 314
- diffeomorphism, 16
- diffeotopy, 49
- differential, 18
- dimension, 9
- double, doubling, 63

- embedding, 296
- equivalent tubular neighbourhoods, 53
- equivariant map, 72
- exponential map, 41

- fibration, 167, 318
- fibre bundle, 23
- fibre map, 168
- fine topology, 103, 307
- flow, 27
- focus, 99
- framing, 24
- fundamental class, 208

- geodesic, 39
- geometrically r -connected, 149
- germ, 100
- glueing, 63
- Gysin isomorphism, 221

- h-cobordism, 152
- handle, handle presentation, 130
- handlebody, 156
- homotopy sphere, 153
- homotopy, homotopy equivalent, 314

- immersion, 21
- index of critical point, 134

- inverse limit, 298
- isotropy group, 72
- isovariant, 184
- jet, jet space, 101
- Kervaire invariant, 216
- Lagrangian, 202
- length of path, 37
- Lie group, 23
- localisation, 329
- loop space, 318
- manifold with boundary, 29
- manifold, smooth m -manifold, 9
- mapping cone, mapping cylinder, 316
- metastable range, 185
- metric adapted to the boundary, 47
- multijet, 102
- mutually transversal, 113
- n -connected map, pair, 316
- non-degenerate critical point, 98
- nonsingular pairing, 202
- normal map, normal cobordism, 197
- normal space, normal bundle, 38
- nul set, 95
- orbit, orbit space, 72
- orientable, orientation covering, 26
- partition of unity, 13
- path, 15
- plumbing, 228
- Poincaré complex, 208
- Poincaré series, 267
- Pontrjagin class, 265
- primary obstruction, 327
- proper group action, 74, 304
- proper map, 300
- reduction, 24
- regular homotopy, 169
- regular point, 96
- residual set, 104
- Riemannian metric, 37
- Riemannian structure, 25
- side, 64
- skeleton, 315
- slice, 76
- smash product, 222, 316
- smooth action, 23, 72
- smooth embedding, 20
- smooth functions, 9
- smooth mapping, 16
- smooth part, 33
- source, 101
- spectrum, 329
- spherical fibration, 221
- spherical modification, 196
- stable group, 244
- stably isomorphic, 24
- Steenrod algebra, 328
- Stiefel manifold, 170
- Stiefel–Whitney class, 263
- Stiefel–Whitney number, 268
- straightening the corner, 61
- stratification, 83
- strictly subordinate, 13
- submanifold, 19
- submanifold with boundary, 31
- subordinate, 13
- support of diffeotopy, 50
- support of function, 13
- suspension, 316
- symplectic basis, 204
- tangent bundle, 25
- tangent space, tangent vector, 17
- target, 101
- Thom class, Thom space, 221
- Thom construction, 239
- totally geodesic, 41
- transverse, 105
- trivial bundle, 24
- tubular neighbourhood, 46
- vector bundle, 23
- vector field, 25
- weak homotopy equivalence, 169, 316
- Whitney sum (of vector bundles), 24