

Bibliography

Note: *page numbers are temporary*

- J.W. Alexander, "An example of a simply connected surface bounding a surface which is not simply connected", *Proc. Nat. Acad. Sci. U.S.A.* **10** (1924), pp. 8{10.
- J.W. Alexander, "On the deformation of an n -cell", *Proc. Nat. Acad. Sci. U.S.A.* **9** (1923), pp.406{407.
- J.W. Alexander, "On the subdivision of 3-spaces by a polyhedron", *Proc. Nat. Acad. Sci. U.S.A.* **10** (1924), pp. 6{8.
- J.W. Alexander, "The combinatorial theory of complexes", *Ann. Math.* **31** (1930), pp.292{320.
- P. Alexandroff, H. Hopf, *Topologie*, Springer-Verlag 1935.
- L. Antoine, "Sur la possibilite d'etendre l'homeomorphie de deux figures a leur voisinage", *C.R. Acad. Sci. Paris* **171** (1920), pp. 661{663.
- M.A. Armstrong, G.E. Cooke, C.P. Rourke, Princeton notes on the hauptvermutung (1968), Warwick Univ. (Coventry).
- M. Atiyah, "Bordism and cobordism", *Proc. Cam. Phil. Soc.* **57** (1961) pp. 200{208.
- N.A. Baas, "On bordism theory of manifolds with singularities", *Math. Scand.* **33** (1973), pp. 279{308.
- D. Barden, "The structure of manifolds", *Doctoral thesis*, Cambridge (1963).
- M.G. Barratt, V.K.A.M. Gugenheim, J.C. Moore, "On semisimplicial fibre bundles", *Am. J. Math.* **81** (1959), pp. 639{657.
- R.H. Bing, Radial Engulfing, Conference on Topology of Manifolds, Michigan State University 1967

- M. Browder, "Structures on $M \times \mathbb{R}$ ", *Proc. Camb. Phil. Soc.* **61** (1965), pp. 337{345.
- M. Browder, *Surgery on simply connected manifolds*, Springer 1972.
- E. Brown Jr, *Cohomology theories*, *Annals of Math* 75 (1962), pp. 467{484
- M. Brown, "A proof of the generalized Schoenflies theorem", *Bull. Amer. Math. Soc.* **66** (1960), pp. 74{76.
- M. Brown, H. Gluck, "Stable structures on manifolds", *Ann of Math.* (1964), pp. 1{58.
- S. Buoncristiano, C.P. Rourke, B.J. Sanderson, "A Geometric Approach to Homology Theory", *L.M.S. Lecture Note Series* **18** (1976), C.U.P.
- S.S. Cairns, "The manifold smoothing problem", *Bull. Amer. Math. Soc.* **67** (1961), pp. 237{238.
- A.J. Casson, D.P. Sullivan, M.A. Armstrong, C.P. Rourke, G.E. Cooke, *The Hauptvermutung Book*, *K{monographs in Mathematics}* 1996.
- J. Cerf, "Isotopie et pseudo-isotopie", *Proc. Int. Congr. Math.*, Moscow (1966), pp. 429{437.
- J. Cerf, "La nullite du groupe π_4 ", *Sem. H. Cartan*, Paris 1962{63, n. 8, 9, 10, 20, 21.
- J. Cerf, "Sur les diffeomorphismes de la sphere de dimension trois ($\pi_4 = 0$)", *Springer Lecture Notes in Math.* **53** (1968).
- A.V. Cernavskii, "Local contractibility of the homeomorphism group of a manifold", (Russian) *Math. Sbornik*, vol. 79 (121) 1969, pp. 307{356; English version *Math. U.S.S.R. Sbornik* **8** (1969), No. 3, pp. 287{333.
- A.V. Cernavskii, "Local contractibility of the homeomorphism group of a manifold", *Soviet Math. Doklady* **9** (1968), pp. 1171{1174; *Dokl. Akad. Nauk. SSSR*, Tom 182 (1968), No. 3, pp. 510{513.
- T.A. Chapman, "Topological invariance of Whitehead torsion", *Amer. J. Math.* **96** (1974), pp. 488{497.
- E. Connell, "Approximating stable homeomorphisms by piecewise linear ones", *Ann. of Math.* **78** (1963), pp. 326{338.

- E. Connell, \A topological H {cobordism theorem for $n > 5$ ", *Illinois J. Math.* 11(1967), pp.300-309
- P. Conner, E. Floyd, \The relation of cobordism to K {theories", *Springer L.N. in Math.* **28**(1966).
- P. Conner, E. Floyd, \Torsion in SU {bordism", *Mem. Amer. Math. Soc.* **60** (1966).
- P. Conner, E. Floyd, *Differentiable periodic maps*, Springer 1964.
- P. Dedecker, \Varietes lineaires par morceaux et varietes combinatoires", *Annali di Mat.Pura Appl.* Serie 4, t. 60 (1962), pp. 365{383.
- R.D. Edwards, R.C. Kirby, \Deformations of spaces of imbeddings", *Ann. of Math.* **93**(1971), pp. 63{88.
- S. Eilenberg, N. Steenrod, *Foundations of Algebraic Topology*, Princeton Univ. Press, 1952.
- S. Eilenberg, S. MacLane, \On the groups $H(\ ;n)$ ", *Ann. of Math.* **58** (1953), pp. 55-106, **60** (1954), 49{139 and 513{557.
- D. B. Gauld, \The canonical Schoenflies theorem", *Proc. Amer. Math. Soc.* **27** (1971), pp. 603{612
- J. Milnor, \On the cobordism ring and a complex analogue", Part I, *Amer. J. Math.* **82** (1960), pp. 505{521.
- L.C. Glaser, \Geometrical Combinatorial Topology, I and II", *Van Nostrand Math. Studies*, **27**, **28** (1970).
- M.L. Gromov, \Stable mappings of foliations into manifolds", *Izv. Akad. Nauk. SSSR Mat.* **33** (1969), pp. 707{734; *Transl. Math. USSR (Izvestia)* **3** (1969), pp. 671{693.
- V. Gugenheim, *Semisimplicial Homotopy Theory*, MAA Studies in Mathematics Vol. 5: Studies in Modern Topology, P.J. Hilton Editor (1968).
- A. Haefliger, \Knotted $4k - 1$ {spheres in $6k$ {space", *Ann. of Math.* **75** (1962), pp. 452{466.
- A. Haefliger, \Knotted spheres and related geometric problems", *Proc. ICM, Moscow* (1966), pp.337{345.

- A. Haefliger, V. Poenaru, "Classification des immersions combinatoires", *Publ. Math. IHES* **23** (1964), pp. 75{91.
- A. Heller, "Homotopy resolutions of semi{simplicial complexes", *Trans. A.M.S.* **80** (1955), pp. 299{344.
- M. Hirsch, "On normal microbundles", *Topology* **5** (1966), pp. 229{240.
- M. Hirsch, B. Mazur, "Smoothings of piecewise{linear manifolds", *Annals of Math. Studies* **80** Princeton Univ. Press, 1974.
- M.W. Hirsch, "Immersion of manifolds", *Trans. Amer. Math. Soc.* **93** pp. 242{276 (1959).
- W.C. Hsiang, J.L. Shaneson, "Fake tori, the annulus conjecture and the conjectures of Kirby", *Proc. Nat. Acad. Sci. U.S.A.* **62** (1969), pp. 687{691.
- J.F. Hudson, E.C. Zeeman, "On combinatorial isotopy", *Publ. I.H.E.S.* **19** (1964), pp. 69{74.
- J.F.P. Hudson, "Extending piecewise{linear isotopies", *Proc. London Math. Soc.* **16** (1966), pp.651{668.
- J.F.P. Hudson, "On transversality", *Proc. Camb. Phil. Soc.* **66** (1969), pp. 17{20.
- J.F.P. Hudson, *Piecewise{linear topology*, Benjamin Inc., New York, 1969.
- W. Huebsch, M. Morse, "The dependence of the Schoenflies extension on an accessory parameter", *J. Analyse Math.* **8** (1960{1961), pp. 209{222.
- D. Husemoller, *Fiber Bundles*, Springer{Verlag 1994.
- M.C.Irwin, "Embeddings of polyhedral manifolds", *Ann. of Math.* **82** (1965), pp.1{14
- D.M. Kan, "Abstract Homotopy I. II", *Proc. Nat. Acad. Sci. Usa* **41** (1955), pp.1092{1096.
- M. Kato, "Topological Resolution of Singularities", *Topology* **12** (1973) pp. 355{372.
- M. Kervaire, J. Milnor, "Groups of homotopy spheres", I, *Ann. of Math.* **77** (1963), pp.504{537.

- M.A. Kervaire, "A manifold which does not admit any differentiable structure", *Comm. Math. Helv.* **34** (1960), pp. 257{270.
- R.C. Kirby, L.C. Siebenmann, "On the triangulation of manifolds and the Hauptvermutung", *Bull. Amer. Math. Soc.* **75** (1969), pp. 742{749.
- R.C. Kirby, L.C. Siebenmann, "Remarks on topological manifolds", *Notices Amer. Math. Soc.* **16** (1969), p. 698 e p. 848.
- R.C. Kirby, L.C. Siebenmann, "Some theorems on topological manifolds", in *Manifolds, SpringerNotes* **97** (1971).
- R.C. Kirby, L.C. Siebenmann, "Foundational Essays on Topological Manifolds, Smoothings and Triangulations", *Ann. of Math. Studies* **88** (1977).
- R.C. Kirby, "Stable homeomorphisms and the annulus conjecture", *Ann. of Math.* **89** (1969), pp. 575{582.
- R.C. Kirby, *Lectures on triangulation of manifolds*, Mimeo, Univ. of Calif. at Los Angeles, 1969.
- R. Kirby, "4-manifolds problems" in: Four-manifold theory, *Contemp. Math.* **35** (1984), pp. 513{528
- R. Kirby, "The Topology of 4-Manifolds", *Lecture Notes in Mathematics* no. 1374 (1989)
- J.M. Kister, "Microbundles are fiber bundles", *Ann. of Math.* **80** (1964), pp. 190-199.
- N.H. Kuiper, R.K. Lashof, "Microbundles and bundles, I," *Invent. Math.* **1** (1966), pp.1{17.
- N.H. Kuiper, R.K. Lashof, "Microbundles and bundles, II," *Invent. Math.* **1** (1966), pp.243{259.
- R. Lashof, M. Rothenberg, "Microbundles and smoothing", *Topology* **3** (1965), pp.357{388.
- R. Lashof, "The immersion approach to triangulations", *Proc. of Symposia in Pure Mathematics* Vol. XXII (1971), pp. 131{164.
- J.A. Lees, "Immersions and surgeries of topological manifolds", *Bull. Amer. Math. Soc.* **75**(1969), pp. 529{534.

- S. MacLane, "Constructions simpliciales acycliques", *Colloque Henri Poincare*, Paris, 1954.
- J.P. May, "Simplicial objects in algebraic topology", *Van Nostrand Math. Studies* **11**(1967).
- B. Mazur, "Differential topology from the viewpoint of simple homotopy theory", *Publ.I.H.E.S.* **15** (1963), pp. 5{93
- J. Milnor, "Microbundles, Part I", *Topology*, Vol. 3 (1964), supplement 1, pp. 53{80.
- J. Milnor, *Lectures on the h{cobordism theorem*, Princeton Mathematical Notes, 1965.
- J. Milnor, *Topology from the differentiable viewpoint*, Virginia 1965.
- J. Milnor, *Microbundles and differentiable structures*, mimeographed, Princeton Univ., September 1961.
- J.W. Milnor, "Two complexes which are homeomorphic but combinatorially distinct", *Ann. of Math.* **74** (1961), pp. 575{590.
- J. Milnor, J. Stasheff, "Lectures on characteristic classes", *Ann. of Math. Studies* **76** (1974).
- E. Moise, "A fine structure on 3-manifolds", *Ann. of Math.* **56** (1952), pp. 96{114.
- E.E. Moise, *Geometric topology in dimensions 2 and 3*, Springer-Verlag 1977.
- J. Moore, "Semisimplicial complexes and Postnikov systems", *Sym. Int. Top. Alg. Mexico* (1958), pp.232{247.
- J. Morgan, D. Sullivan, "Transversality characteristic class and linking cycles in surgery theory", *Ann. of Math.* **99** (1974), pp. 463{544.
- C. Morlet, "Hauptvermutung et triangulation des varietes", *Sem. Bourbaki* 1968{69, Expose n.362.
- C. Morlet, "Microbundles et structures differentiables", *Sem. Bourbaki* (1963), Expose n. 263.
- C. Morlet, *Plongements et automorphismes des varietes*, (notes multigraphiees), CoursPeccot, College de France, Paris 1969.

- J. Munkres, "Differentiable isotopies on the 2-sphere", *Mich. Math. J.* **7** (1960), pp.193-197.
- J. Munkres, "Elementary differential topology", *Ann. of Math. Study* **54** (1961), Princeton Univ. Press.
- J. Munkres, "Obstructions to smoothing piecewise differentiable homeomorphisms", *Ann. of Math.* **72** (1960), pp. 521-544 .
- M.H.A. Newman, "On the foundations of combinatorial analysis situs", *Proc. Acad. Sci. Amsterdam* **29** (1926), pp. 611-641.
- M.H.A. Newman, "The engulfing theorem for topological manifolds", *Ann. of Math.* **84**(1966), pp. 555-571.
- S.P. Novikov, "The methods of algebraic topology from the viewpoint of cobordism theory", *Math.USSR{Izv}* (1967), pp. 827-913.
- S.P. Novikov, "Topological invariance of rational Pontrjagin classes", *Doklady* **163** (1965), pp.298-300 (*Soviet Math.* (1965), pp. 921-923).
- R. Palais, "Extending diffeomorphisms", *Proc. Amer. Math. Soc.* **11** (1960), pp. 274-277.
- L.S. Pontrjagin, "Harakterisiceskie cikly differenciruemyh mnogoobarzjij", *Mat. Sb.* **21** (63)(1947), pp. 233-284.
- D.G. Quillen, "The geometrical realization of a Kan fibration is a Serre fibration", *Proc. Amer.Math. Soc.* **19** (1968), pp. 1499-1500.
- V.A. Rohlin, "A 3-dimensional manifold is the boundary of a 4-dimensional manifold" (Russian), *Doklady Akad. Nauk. S.S.S.R.* **81** (1951), p. 355.
- D. Rolfsen, *Knots and links*, Publish or Perish, 1976.
- C. Rourke, *The Structure of Manifolds*, mimeographed
- C.P. Rourke, B.J. Sanderson, "Sets I, II", *Q.J. Math.*, Oxford Ser. 2, **22** (1971), pp. 321-338 and pp. 465-485.
- C.P. Rourke, B.J. Sanderson, "Block-bundles I, II, III", *Ann. of Math.* **87**, (1968).
- C.P. Rourke, B.J. Sanderson, "Introduction to Piecewise-linear Topology", *Ergebnisse Math.*, Band 69, Springer-Verlag 1972.

- C.P. Rourke, B.J. Sanderson, "On topological neighborhoods", *Compositio Math.* **22** (1970), pp.387{424.
- C.P. Rourke, *On conjectures of Smale and others concerning the diffeomorphism group of S^n* , Mimeo, Univ. of Warwick 1972.
- C.P. Rourke, *On structure theorems*, Mimeo, Univ. of Warwick 1972.
- T.B. Rushing, *Topological Embeddings*, Academic Press, 1973.
- B.J. Sanderson, "The simplicial extension theorem", *Proc. Camb. Phil. Soc.* **77** (1975), pp.497{498.
- L.C. Siebenmann, "Deformation of homeomorphisms on stratified sets", *Comment. Math. Helv.* **47** (1972), pp. 123{163.
- L.C. Siebenmann, "Topological manifolds", *Proc. I.C.M. Nice* (1970).
- S. Smale, "Diffeomorphisms of the 2-sphere", *Proc. Amer. Math. Soc.* **10** (1959), pp.621{626.
- S. Smale, "Generalised Poincaré's conjecture in dimensions > 4 ", *Ann. of Math.* **74** (1961)pp. 391{466.
- S. Smale, "On structure of manifolds", *Amer. J. of Math.* **84** (1962), pp. 387{399.
- S. Smale, "The classification of immersion of spheres in euclidean space", *Ann. of Math.* **69**pp. 327{344 (1959).
- E.H. Spanier, *Algebraic Topology*, McGraw-Hill 1966.
- J. Stallings, "Infinite processes", pp. 245{253 in *Differential and Combinatorial Topology*, ed. S.Cairns, Princeton Univ. Press 1965.
- J. Stallings, "Polyhedral homotopy spheres", *Bull. Amer. Math. Soc.* **66** (1960), pp. 485{488.
- J. Stallings, *Lectures on polyhedral Topology*, Bombay 1967.
- J. Stallings, "Notes on polyhedral topology", *Tata Institute* (1967)
- J. Stallings, "The p.l. structure of euclidean space", *Proc. Cambridge Philos. Soc.* **58**, (1962), pp. 481{488.
- J. Stallings, "Whitehead torsion of free products", *Ann. of Math.* **88**, (1965),pp. 354{363.

- N. Steenrod, *The Topology of Fibre Bundles*, Princeton 1951.
- R.E. Stong, *Notes on cobordism theory*, Princeton Univ. Press. (1968).
- D. Sullivan, "Geometric Topology, Part I", Mimeographed notes, MIT 1970.
- D. Sullivan, "Singularities in Spaces", Proc. of Liverpool Singularities Symposium II, *Lecture Notes in Math.* **209** (1971), pp. 196{206.
- D.P. Sullivan, "On the hauptvermutung for manifolds", *Bull. Amer. Math. Soc.* **73** (1967), pp.598{600.
- D.P. Sullivan, *Triangulating homotopy equivalences*, Doctorial thesis, Princeton Univ. (1966).
- R.M. Switzer, *Algebraic Topology{Homotopy and Homology*, Springer.
- R. Thom, "Des varietes combinatoires aux varietes differentiables", *Proc. I.C.M.* 1958, C.U.P.1960.
- R. Thom, "La classification des immersion d'apres Smale", *Seminaire Bourbaki*, decembre1957.
- C.T.C Wall, "Determination of the cobordism ring", *Ann. of Math.* **72** (1960), pp. 292{311.
- C.T.C Wall, "Homeomorphism and diffeomorphism classification of manifolds", *Proc. I.C.M., Moscow* 1966, pp. 450{459.
- C.T.C Wall, "On homotopy tori and the annulus theorem", *Bull. London Math. Soc.*, **1** (1969),pp. 95{97.
- C.T.C Wall, *Surgery on Compact Manifolds*, Academic Press 1971.
- J.H.C. Whitehead, "On C^1 complexes", *Ann. of Math.* **41** (1940), pp. 804{824.
- J.H.C. Whitehead, "Simplicial spaces nuclei and m -groups", *Proc. London Math. Soc.* **45** (1939).
- J.H.C. Whitehead, "Combinatorial homotopy I", *B.A.M.S.* **55** (1949), pp. 213{245.
- H. Whitney, "Analytic extension of differentiable functions defined on closed sets", *Trans. Amer.Math. Soc.* **36** (1934), pp. 63{89.

- H. Whitney, "The self-intersections of a smooth n -manifold in $2n$ -space", *Ann. of Math.* **45** (1944), pp. 220-246.
- E.C. Zeeman, "Relative simplicial approximation", *Proc. Camb. Phil. Soc.* **60** (1964), 39-43.
- E.C. Zeeman, "Seminar on combinatorial topology", *Notes I.H.E.S. and Warwick*, (1963).
- E.C. Zeeman, "The generalised Poincaré conjecture", *B.A.M.S.* **67** (1961) p. 270.
- E.C. Zeeman, *The Poincaré conjecture for $n \geq 5$. Topology of 3-manifolds and related topics*, M.K. Fort (Ed.), Prentice Hall 1962.
- E.C. Zeeman, *Letter to Colin Rourke*, 1966.