## WILLIAM BROWDER

## BIBLIOGRAPHY

- 1. The cohomology of covering spaces of H-spaces, Bulletin of the American Mathematical Society, **65** (1959), 140-141.
- Homology and homotopy of H-spaces, Proceedings of the National Academy of Sciences, 46 (1960), 543-545.
- Homology operations and loop spaces, Illinois Journal of Mathematics, 4 (1960), 347-357.
- 4. Loop spaces of H-spaces, Bulletin of the American Mathematical Society, **66** (1960), 316-319.
- 5. Some additive cohomology operations which are not suspensions, Proceedings of the Cambridge Philosophical Society, **57** (1961), 50-54.
- 6. Torsion in H-spaces, Annals of Mathematics, 74 (1961), 24-51.
- 7. Homotopy commutative H-spaces, Annals of Mathematics, 75 (1962), 283-311.
- (with Isaac Namioka) H-spaces with commutative holology rings, Annals of Mathematics, 75 (1962), 449-451.
- 9. Fiberings of spheres and H-spaces with commutative homology rings, Bulletin of the American Mathematical Society, **68** (1962), 202-203.
- 10. (with E. Thomas) Axioms for the generalized Pontrjagin cohomology operations, Quarterly Journal of Mathematics, **13** (1962), 55-60.
- (with E. Spanier) H-spaces and duality, Pacific Journal of Mathematics, 12 (1962), 411-414.
- 12. (with E. Thomas) On the projective plane of an H-space, Illinois Journal of Mathematics, 7 (1963), 492-502.
- Remark on the Poincaré duality theorem, Proceedings of the American Mathematical Society, 13 (1962), 927-930.
- 14. On differential Hopf algebras, Transactions of the American Mathematical Society, **107** (1963), 153-176.

- 15. *Higher torsion in H-spaces*, Transactions of the American Mathematical Society, **108** (1963), 353-375.
- 16. *Homotopy type of differentiable manifolds*, Proceedings of the Aarhus Colloquium on Algebraic Topology, 1962.
- 17. Differential Hopf algebras and H-spaces, Proceedings of the Aarhus Colloquium on Algebraic Topology, 1962.
- 18. Cap products and Poincaaré duality, Mimeographed Notes, Cambridge University, (1964).
- 19. (with P. Baum) Cohomology of quotients of classical groups, Topology, **3** (1965), 305-336.
- 20. On the action of  $\theta^n(\partial \pi)$ , in Differential and Combinatorial Topology, Princeton University Press (1965).
- 21. (with J. Levine and G. R. Livesay) Finding a boundary for an open manifold, American Journal of Mathematics, 87 (1965), 1017-1028.
- 22. Structures on  $M \times R$ , Proceedings of the Cambridge Philosophical Society, **61** (1965), 337-345.
- 23. Open and closed disk bundles, Annals of Mathematics, 83 (1966), 218-230
- 24. (with J. Levine) Fibering maniforlds over a circle, Commentarii Mathematici Helvetici, 4 (1966). 153-160.
- 25. Manifolds with  $\pi_1 = Z$ , Bulletin of the American Mathematical Society, **72** (1966), 238-244.
- Embedding 1-connected manifolds, Bulletin of the American Mathematical Society, 72 (1966), 225-231.
- (with A. Lunlevicius and F. P. Peterson) Cobordism theories, Annals of Mathematics, 84 (1966), 91-101.
- 28. (with M. Hirsch) Surgery on piecewise linear manifolds and applications, Bulletin of the American Mathematical Society, **72** (1966), 959-964.
- 29. (with G. R. Livesay) Fixed point free involutions on homotopy sphere, Bulletin of the American Mathematical Society, **73** (1967), 242-245.
- 30. Homology rings of groups, American Journal of Mathematics, **90** (1968), 318-333.

- Diffeomorphisms of 1-connected manifolds, Transactions of the American Mathematical Society, 128 (1967), 155-163.
- 32. Embedding smooth manifolds, Proceedings of the International Congress of Mathematicians, Moscow: Isdatel'stvo "MIR", (1968) 712-719.
- Surgery and the theory of differential transformation groups, Proceedings of the Conference on Transformation Groups, New Orleans, (1967), New York: Springer-Verlag, 1968, 1-46.
- 34. The Kervaire invariant of framed manifolds and its generalization, Annals of Mathematics, **90** (1969), 157-186.
- 35. (with T. Petrie) Semi-free and quasi-free S<sup>1</sup>-actions on homotopy spheres, Essays on Topology and Related Topics (Mémoires Dédiés a G. de Rham), edited by A. Haefliger and R. Narasimhan, New York: Springer-Verlag (1970), 136-146.
- 36. Free  $Z_n$ -actions on homotopy spheres, Topology of Manifolds, Proceedings of the Georgia Topology of Manifolds Institute (1969), Chicago: Markham Publishing Company, 1970, 217-226.
- Manifolds and homotopy theory, Lecture Notes in Mathematics, 197 (1970), New York: Springer-Verlag, 17-35.
- (with T. Petrie and C. T. C. Wall) The classification of free actions of cyclic groups of odd order on homotopy spheres, Bulletin of the American Mathematical Society, 77 (1971), 455-459.
- 39. (with T. Petrie) Diffeomorphisms of manifolds and semi-free actions on homotopy spheres, Bulletin of the American Mathematical Society, **77** (1971), 160-63.
- 40. (with G. Brumfiel) A note on cobordism of Poincaré duality spaces, Bulletin of the American Mathematical Society, **77** (1971), 400-403.
- 41. Manifolds and homotopy theory, Actes due Congrés International des Mathématiciens, Paris: Gauthier-Villars, 1 (1971), 37-40.
- 42. Surgery on simply connected manifolds, New York: Springer-Verlag (1972), 132 pages.
- 43. Inertia groups of homotopy projective spaces, Boletin de la Sociedad Matematica Mexicana, **17** (1972), 10-13.
- Poincaré spaces, their normal fibrations and surgery, Inventiones Mathematicae, 17 (1972), 191-202.

- 45. (with G. R. Livesay) Fixed point free involutions on homotopy spheres, Tohoku Mathematical Journal, **25** (1973), 69-88.
- 46. The Kervaire invariant, products and Poincaré transversality, Topology, **12** (1973), 145-158.
- 47. Cobordism invariants, the Kervaire invariant and fixed point free involutions, Transactions of the American Mathematical Society, **178** (1973), 193-225.
- 48. (with F. Quinn) A surgery theory for G-manifolds and stratified sets, in Manifolds, Tokyo: University of Tokyo Press (1975), 27-37.
- 49. Differential topology of higher dimensional manifolds, informally published and distributed by the American Mathematical Society in connection with the Colloquium Lectures given at Annual Meeting of the A.M.S., St. Louis, MO (January 26-30, 1977), 31 pages.
- 50. (with Wu-chung Hsiang) Some problems on homotopy theory, manifolds and transformation groups, Proceedings of Symposia in Pure Methematics, **32**, Providence: American Mathematical Society (1977), 331-347.
- 51. Algebraic K-theory and Z/p coefficients, in Geometric Applications of Homotopy Theory I, Proceedings, Evanston: Springer Lecture Notes, No. 657 (1978), 40-84.
- 52. Complete Intersections and the Kervaire Invariant, Proceedings of Aarhus Topology Conference, Springer Lecture Notes, 763, 1978, 88-108.
- 53. (with Wh-Chung Hsiang) *G*-actions and the fundamental group, Inventiones Mathematicae, **65** (1982), 411-424.
- 54. (with N. Katz) Free actions of finite groups on varieties, I, Current Trends in Algebraic Topology, CMS Conference Proceedings, **2**, Part 2 (1982), 23-33, .
- 55. (with N. Katz) Free actions of finite groups on varieties, II, Mathematische Annalen, **260** (1982), 403-412.
- Research Briefing Panel on Mathematics: History and Background Notices, AMS, 30 (1983) 268-270.
- Cohomology and group actions, Inventiones Mathematicae, 71 (1983), 599-608.
  Addendum and Erratum, 75 (1984), 585.
- 58. (with A. Assadi) On the existence and classification of extensions of actions of finite groups on submanifolds of disks and spheres, Transactions of the American Mathematical Society, 291 (1985).

- 59. S<sup>1</sup> actions on open manifolds, Proceedings of St. Johns, Newfoundland, 1983, Conference in honor of Peter Hilton, Contemporary Math., **37** (1985) 25-30.
- 60. Mathematical Judgement, Math. Inteligenser, 7 (1985) no. 1, 51-52.
- 61. Pulling back fixed points, Invent. Math., **87** (1987), 331-342.
- 62. Isovariant homotopy equivalence, Abstracts AMS, 8 (1987) no. 834-57-88, 237.
- 63. (with F. Almgren and E. Lieb) Co-area, Liquid crystals, and minimal surfaces, in Partial Differential Equations, Proceedings of Symposium, Tianjin, 1986, Lecture Notes in Math., 1306, Springer-Verlag (1988), 1-22.
- 64. Actions of elementary abelian p-groups, Topology 27 (1988) 459-472.
- 65. (with A. Adem) The free rank of symmetry of  $(S^n)^k$ , Inventiones, **92** (1988), 431-440.
- 66. (with F. Almgren) *Homotopy with holes and minimal surfaces*, Differential Geometry, Longman Scientific & Technical (1991), 15-24.
- 67. Fixed points of actions of p-groups on projective varieties, Math. Scand, **66** (1990), 185-196.
- 68. Commentary on Topology, in A Century of Mathematics in America, 2, American Math Society (1989), 347-351.
- (with J. Pakianathan) Cohomology of uniformly powerful p-groups, Trans. AMS, 352 (2000) no.6, 2659-2688.
- (with J. Pakianathan) Lifting Lie Algebras over the residue field of a discrete valuation ring, J. Pure & Applied Algebra, 142 (1999) no.3, 239-247.
- Differential topology in higher dimensions, in Surveys on Surgery Theory:, Vol. 1, Papers dedicated to C.T.C. Wall, Annals of Math Study, 145, Princeton University Press, (2000).
- Homologically exotic free actions on products of S<sup>m</sup>, in Topology, geometry, and algebra:interactions and new directions (Stanford CA 1999) 57-72, Contemp. Math., 279, American Math Soc., Providence, RI, (2001).

5

October 25, 2006