

32. L. Jones, *The converse to the fixed point theorem of P. A. Smith. I*, Ann. of Math. (2) **94** (1971), 52–68. MR **45** #4427.
33. ———, *The converse to the fixed point theorem of P. A. Smith. II*, Indiana Univ. Math. J. **22** (1972/73), 309–325. MR **49** #4010.
34. R. Kerekjarto, *Über die periodischen Transformationen der Kreisscheibe und der Kugelfläche*, Math. Ann. **80** (1921), 36–38.
35. B. Lawson and S. T. Yau, *Scalar curvature, nonabelian group actions, and the degree of symmetry of exotic spheres*, Comment. Math. Helv. **49** (1974), 232–244.
36. J. Milnor and J. C. Moore, *On the structure of Hopf algebras*, Ann. of Math. (2) **81** (1965), 211–264. MR **30** #4259.
37. D. Montgomery and L. Zippin, *Periodic one-parameter groups in three-space*, Trans. Amer. Math. Soc. **40** (1936), 24–36.
38. ———, *Non-abelian, compact, connected transformation groups of three-space*, Amer. J. Math. **61** (1939), 375–387.
39. ———, *Topological transformation groups*, Interscience, New York and London, 1955. MR **17**, 383.
40. R. Oliver, *Fixed-point sets of group actions on finite acyclic complexes*, Comment. Math. Helv. **50** (1975), 155–177. MR **51** #11556.
41. ———, *Projective obstructions to group actions on disks* (to appear).
42. ———, *Smooth compact Lie group actions on disks* (to appear).
43. V. Puppe, *On a conjecture of Bredon*, Manuscripta Math. **12** (1974), 11–16. MR **49** #11502.
44. D. Quillen, *The spectrum of an equivariant cohomology ring. I, II*, Ann. of Math. (2) **94** (1971), 549–572; *ibid.* (2) **94** (1971), 573–602. MR **45** #7743.
45. R. Schultz, *Improved estimates for the degree of symmetry of certain homotopy spheres*, Topology **10** (1971), 227–235. MR **44** #1052.
46. ———, *Semifree circle actions and the degree of symmetry of homotopy spheres*, Amer. J. Math. **93** (1971), 829–839. MR **44** #4752.
47. ———, *Circle actions on homotopy spheres not bounding spin manifolds*, Trans. Amer. Math. Soc. **213** (1975), 89–98. MR **52** #1750.
48. G. Segal, *Equivariant K-theory*, Inst. Hautes Études Sci. Publ. Math. **34** (1968), 129–151. MR **38** #2769.
49. P. A. Smith, *Transformations of finite period. I, II, III, IV*, Ann. of Math. (2) **39** (1938), 127–164; *ibid.* **40** (1939), 690–711; *ibid.* **42** (1941), 446–458; *ibid.* **46** (1945), 357–364. MR **1**, 30; **2**, 324; **7**, 136.
50. J. C. Su, *Periodic transformations on the product of two spheres*, Trans. Amer. Math. Soc. **112** (1964), 369–380. MR **29** #612.
51. D. Sullivan, *Differential forms and the topology of manifolds*, Manifolds–Tokyo 1973 (Proc. Internat. Conf. on Manifolds and Related Topics in Topology), Univ. of Tokyo Press, Tokyo, 1975, pp. 37–49. MR **51** #6838.
52. R. W. Sullivan, *Linear models for compact groups acting on spheres*, Topology **13** (1974), 77–87. MR **49** #4006.
53. R. Swan, *A new method in fixed point theory*, Comment. Math. Helv. **34** (1960), 1–16. MR **22** #5978.

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Partial differential equations: theory and technique, George F. Carrier and Carl E. Pearson, Academic Press, New York, San Francisco, London, 1976, ix + 320 pp., \$16.50.

In the introduction to his lecture notes on *Methods of mathematical physics*, K. O. Friedrichs observes that most of the fundamental problems of analysis have their origins in physics and that, of these problems, a high percentage are concerned with differential equations. As he points out, the fundamental laws on which problems in the sciences are based are formulated in terms of partial