

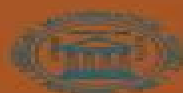
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Volume 69

Surgery on Compact Manifolds

Second Edition

C. T. C. Wall

Edited by A. A. Ranicki



American Mathematical Society

Surgery On Compact Manifolds

RM Cervero



Surgery On Compact Manifolds:

Surgery on Compact Manifolds Charles Terence Clegg Wall, Andrew Ranicki, 1999 The publication of this book in 1970 marked the culmination of a period in the history of the topology of manifolds This edition based on the original text is supplemented by notes on subsequent developments and updated references and commentaries

Surgery on Compact Manifolds C. T. C. Wall, 2024-11-18 The publication of this book in 1970 marked the culmination of a particularly exciting period in the history of the topology of manifolds The world of high dimensional manifolds had been opened up to the classification methods of algebraic topology by Thom's work in 1952 on transversality and cobordism the signature theorem of Hirzebruch in 1954 and by the discovery of exotic spheres by Milnor in 1956 In the 1960s there had been an explosive growth of interest in the surgery method of understanding the homotopy types of manifolds initially in the differentiable category including results such as the h cobordism theory of Smale 1960 the classification of exotic spheres by Kervaire and Milnor 1962 Browder's converse to the Hirzebruch signature theorem for the existence of a manifold in a simply connected homotopy type 1962 the s cobordism theorem of Barden Mazur and Stallings 1964 Novikov's proof of the topological invariance of the rational Pontrjagin classes of differentiable manifolds 1965 the fibering theorems of Browder and Levine 1966 and Farrell 1967 Sullivan's exact sequence for the set of manifold structures within a simply connected homotopy type 1966 Casson and Sullivan's disproof of the Hauptvermutung for piecewise linear manifolds 1967 Wall's classification of homotopy tori 1969 and Kirby and Siebenmann's classification theory of topological manifolds 1970 The original edition of the book fulfilled five purposes by providing a coherent framework for relating the homotopy theory of manifolds to the algebraic theory of quadratic forms unifying many of the previous results a surgery obstruction theory for manifolds with arbitrary fundamental group including the exact sequence for the set of manifold structures within a homotopy type and many computations the extension of surgery theory from the differentiable and piecewise linear categories to the topological category a survey of most of the activity in surgery up to 1970 a setting for the subsequent development and applications of the surgery classification of manifolds This new edition of this classic book is supplemented by notes on subsequent developments References have been updated and numerous commentaries have been added The volume remains the single most important book on surgery theory

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[Surgery of Compact Manifolds](#) Richard W. Sharpe, 1970 **Surveys on Surgery Theory** Sylvain Cappell, Andrew Ranicki, Jonathan Rosenberg, 2000 Surgery theory the basis for the classification theory of manifolds is now about forty years old The sixtieth birthday on December 14 1996 of C T C Wall a leading member of the subject's founding generation led the editors of this volume to reflect on the extraordinary accomplishments of surgery theory as well as its current enormously varied interactions with algebra analysis and geometry Workers in many of these areas have often lamented the lack of a

single source surveying surgery theory and its applications Because no one person could write such a survey the editors asked a variety of experts to report on the areas of current interest This is the second of two volumes resulting from that collective effort It will be useful to topologists to other interested researchers and to advanced students The topics covered include current applications of surgery Wall's finiteness obstruction algebraic surgery automorphisms and embeddings of manifolds surgery theoretic methods for the study of group actions and stratified spaces metrics of positive scalar curvature and surgery in dimension four In addition to the editors the contributors are S Ferry M Weiss B Williams T Goodwillie J Klein S Weinberger B Hughes S Stolz R Kirby L Taylor and F Quinn Algebraic L-theory and Topological Manifolds Andrew Ranicki, 1992-12-10 Assuming no previous acquaintance with surgery theory and justifying all the algebraic concepts used by their relevance to topology Dr Ranicki explains the applications of quadratic forms to the classification of topological manifolds in a unified algebraic framework *Novikov Conjectures, Index Theorems and Rigidity* Steven C. Ferry, Andrew Ranicki, Jonathan Micah Rosenberg, London Mathematical Society, 1995 Volume 2 contains fundamental long research papers by G Carlsson on Bounded K theory and the assembly map in algebraic K theory and by S Ferry and E Pedersen on Epsilon surgery theory shorter research and survey papers on various topics related to the Novikov Conjecture by Bekka Cherix Valette Eichhorn Ferry Higson Roe Hurder Pedersen Pedersen Roe Weinberger Thomas Troitsky and Weiss Williams Canadian Journal of Mathematics , 1986-10

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