

1. Record Nr.	UNINA9910812334603321
Titolo	Surveys on surgery theory . Volume 1 : papers dedicated to C. T. C. Wall // edited by Sylvain Cappell, Andrew Ranicki, and Jonathan Rosenberg
Pubbl/distr/stampa	Princeton, New Jersey ; ; Chichester, England : , : Princeton University Press, , 2000 ©2000
ISBN	0-691-04937-8 1-4008-6519-0
Descrizione fisica	1 online resource (448 p.)
Collana	Annals of Mathematics Studies ; ; Number 145
Classificazione	SI 830
Disciplina	514.72
Soggetti	Surgery (Topology)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Front matter -- Contents -- Preface -- C. T. C. Wall's contributions to the topology of manifolds / Cappell, Sylvain / Ranicki, Andrew / Rosenberg, Jonathan -- C. T. C. Wall's publication list / Cappell, Sylvain / Ranicki, Andrew / Rosenberg, Jonathan -- Classification of (n - 1)-connected 2n-dimensional manifolds and the discovery of exotic spheres / Milnor, John -- Surgery in the 1960's / Novikov, S. P. -- Differential topology of higher dimensional manifolds / Browder, William -- Differentiable structures on manifolds / Lance, Timothy -- The Kervaire invariant and surgery theory / Brown, Edgar H. -- A guide to the classification of manifolds / Kreck, Matthias -- Poincaré duality spaces / Klein, John R. -- Poincaré duality groups / Davis, Michael W. -- Manifold aspects of the Novikov Conjecture / Davis, James F. -- A guide to the calculation of the surgery obstruction groups for finite groups / Hambleton, Ian / Taylor, Laurence R. -- Surgery theory and infinite fundamental groups / Stark, C. W. -- Continuously controlled surgery theory / Pedersen, Erik Kjær -- Homology manifolds / Mio, Washington -- A survey of applications of surgery to knot and link theory / Levine, Jerome / Orr, Kent E. -- Surgery and C-algebras / Roe, John -- The classification of Aloff-Wallach manifolds and their generalizations / Milgram, R. James -- Elliptic cohomology / Thomas, Charles B.

Sommario/riassunto

Surgery theory, the basis for the classification theory of manifolds, is now about forty years old. There have been some extraordinary accomplishments in that time, which have led to enormously varied interactions with algebra, analysis, and geometry. Workers in many of these areas have often lamented the lack of a single source that surveys surgery theory and its applications. Indeed, no one person could write such a survey. The sixtieth birthday of C. T. C. Wall, one of the leaders of the founding generation of surgery theory, provided an opportunity to rectify the situation and produce a comprehensive book on the subject. Experts have written state-of-the-art reports that will be of broad interest to all those interested in topology, not only graduate students and mathematicians, but mathematical physicists as well. Contributors include J. Milnor, S. Novikov, W. Browder, T. Lance, E. Brown, M. Kreck, J. Klein, M. Davis, J. Davis, I. Hambleton, L. Taylor, C. Stark, E. Pedersen, W. Mio, J. Levine, K. Orr, J. Roe, J. Milgram, and C. Thomas.
