

1. Record Nr.	UNINA9910811911303321
Titolo	Surveys on surgery theory . Volume 2 : papers dedicated to C.T.C. Wall // edited by Sylvain Cappell, Andrew Ranicki, and Jonathan Rosenberg
Pubbl/distr/stampa	Princeton, New Jersey ; ; Oxfordshire, England : , : Princeton University Press, , 2001 ©2001
ISBN	0-691-08814-4 1-4008-6521-2
Descrizione fisica	1 online resource (446 p.)
Collana	Annals of Mathematics Studies ; ; Number 149
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 bibliografia	Includes bibliographical references.
Nota di contenuto	Front matter -- Contents -- Preface / Cappell, Sylvain / Ranicki, Andrew / Rosenberg, Jonathan -- Surgery theory today - what it is and where it's going / Rosenberg, Jonathan -- Reflections on C. T. C. Wall's work on cobordism / Rosenberg, Jonathan -- A survey of Wall's finiteness obstruction / Ferry, Steve / Ranicki, Andrew -- An introduction to algebraic surgery / Ranicki, Andrew -- Automorphisms of manifolds / Weiss, Michael / Williams, Bruce -- Spaces of smooth embeddings, disjunction and surgery / Goodwillie, Thomas G. / Klein, John R. / Weiss, Michael S. -- Surgery theoretic methods in group actions / Cappell, Sylvain / Weinbergert, Shmuel -- Surgery and stratified spaces / Hughes, Bruce / Weinberger, Shmuel -- Metrics of positive scalar curvature and connections with surgery / Rosenberg, Jonathan / Stolz, Stephan -- A survey of 4-manifolds through the eyes of surgery / Kirby, Robion C. / Taylor, Laurence R. -- Problems in 4-dimensional topology / Quinn, Frank
Sommario/riassunto	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.
