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# Manifolds with Singularities and the Adams–Novikov Spectral Sequence

Boris I. Botvinnik

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# Manifolds With Singularities And The Adams Novikov Spectral Sequence

**Andrew Ranicki**



## **Manifolds With Singularities And The Adams Novikov Spectral Sequence:**

**Manifolds with Singularities and the Adams-Novikov Spectral Sequence** Boris I. Botvinnik, 1992-07-23 Many interesting results not widely known outside the USSR are brought together in this analysis of the Adams Novikov spectral sequence a tool that has enabled the computation of generators and relations to describe homotopy groups *Canadian Journal of Mathematics*, 1994-06

**Quantum Groups and Lie Theory** Andrew Pressley, 2002-01-17 Since its genesis in the early 1980s the subject of quantum groups has grown rapidly By the late 1990s most of the foundational issues had been resolved and many of the outstanding problems clearly formulated To take stock and to discuss the most fruitful directions for future research many of the world's leading figures in this area met at the Durham Symposium on Quantum Groups in the summer of 1999 and this volume provides an excellent overview of the material presented there It includes important surveys of both cyclotomic Hecke algebras and the dynamical Yang Baxter equation Plus contributions which treat the construction and classification of quantum groups or the associated solutions of the quantum Yang Baxter equation The representation theory of quantum groups is discussed as is the function algebra approach to quantum groups and there is a new look at the origins of quantum groups in the theory of integrable systems

**Manifolds with the Singularities and the Adam-Novikov Spectral Sequence** Boris I. Botvinnik, 1992

**A Quantum Groups Primer** Shahn Majid, 2002-04-04 This book provides a self contained introduction to quantum groups as algebraic objects Based on the author's lecture notes for the Part III pure mathematics course at Cambridge University it is suitable for use as a textbook for graduate courses in quantum groups or as supplement to modern courses in advanced algebra The book assumes a background knowledge of basic algebra and linear algebra Some familiarity with semisimple Lie algebras would also be helpful The book is aimed as a primer for mathematicians but will also be useful for mathematical physicists

*Handbook of Tilting Theory* Lidia Angeleri Hügel, Dieter Happel, Henning Krause, 2007-01-04 A handbook of key articles providing both an introduction and reference for newcomers and experts alike

**Stable Modules and the D(2)-Problem** F. E. A. Johnson, 2003-09-11 This 2003 book is concerned with two fundamental problems in low dimensional topology Firstly the D 2 problem which asks whether cohomology detects dimension and secondly the realization problem which asks whether every algebraic 2 complex is geometrically realizable The author shows that for a large class of fundamental groups these problems are equivalent Moreover in the case of finite groups Professor Johnson develops general methods and gives complete solutions in a number of cases In particular he presents a complete treatment of Yoneda extension theory from the viewpoint of derived objects and proves that for groups of period four two dimensional homotopy types are parametrized by isomorphism classes of projective modules This book is carefully written with an eye on the wider context and as such is suitable for graduate students wanting to learn low dimensional homotopy theory as well as established researchers in the field

**Spaces of Kleinian Groups** Yair N. Minsky, Makoto Sakuma, Caroline Series, 2006-06-19 The subject of Kleinian groups and hyperbolic 3 manifolds is

currently undergoing explosively fast development the last few years having seen the resolution of many longstanding conjectures This volume contains important expositions and original work by some of the main contributors on topics such as topology and geometry of 3 manifolds curve complexes classical Ahlfors Bers theory computer explorations and projective structures Researchers in these and related areas will find much of interest here

**Noncommutative Localization in Algebra and Topology** Andrew Ranicki, 2006-02-09 Noncommutative localization is a powerful algebraic technique for constructing new rings by inverting elements matrices and more generally morphisms of modules Originally conceived by algebraists notably P M Cohn it is now an important tool not only in pure algebra but also in the topology of non simply connected spaces algebraic geometry and noncommutative geometry This volume consists of 9 articles on noncommutative localization in algebra and topology by J A Beachy P M Cohn W G Dwyer P A Linnell A Neeman A A Ranicki H Reich D Sheiham and Z Skoda The articles include basic definitions surveys historical background and applications as well as presenting new results The book is an introduction to the subject an account of the state of the art and also provides many references for further material It is suitable for graduate students and more advanced researchers in both algebra and topology

**Canadian Journal of Mathematics**, 1994-06

**Groups** T. W. Müller, 2004-04-08 In 1999 a number of eminent mathematicians were invited to Bielefeld to present lectures at a conference on topological combinatorial and arithmetic aspects of infinite groups The present volume consists of survey and research articles invited from participants in this conference Topics covered include topological finiteness properties of groups Kac Moody groups the theory of Euler characteristics the connection between groups formal languages and automata the Magnus Nielsen method for one relator groups atomic and just infinite groups topology in permutation groups probabilistic group theory the theory of subgroup growth hyperbolic lattices in dimension three generalised triangle groups and reduction theory All contributions are written in a relaxed and attractive style accessible not only to specialists but also to good graduate and post graduate students who will find inspiration for a number of basic research projects at various levels of technical difficulty

**Bulletin (new Series) of the American Mathematical Society**, 2004

**Bulletin of the American Mathematical Society**, 1996

**Canadian Journal of Mathematics**, 1994-06

*Mathematical Reviews*, 2005

*Surveys in Combinatorics*, 2001

*Notices of the American Mathematical Society* American Mathematical Society, 1992

*Number Theory* Sinnou David, 1995 This is the fourteenth annual volume arising from the Seminaire de Theorie des Nombres de Paris As with previous volumes the whole spectrum of number theory is discussed with many contributions from some of the world's leading figures The very latest research developments are covered and much of the work presented here will not be found elsewhere Also included are surveys that will serve to guide the reader through the extensive published literature This will be a necessary addition to the libraries of all workers in number theory

*Mathematics of the USSR: Izvestija*, 1984

*Kyushu Journal of Mathematics*, 1994

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