

Rings and Homology

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J. N. G. BROWN, DPhil, J. N. G. BROWN

Rings Homology

Andrew Baker, Birgit Richter



Rings Homology:

Foundations of Commutative Rings and Their Modules Fanggui Wang, Hwankoo Kim, 2024-09-02 This book provides an introduction to the foundations and recent developments in commutative algebra. A look at the contents of the first five chapters shows that the topics covered are those usually found in any textbook on commutative algebra. However, this book differs significantly from most commutative algebra textbooks, namely in its treatment of the Dedekind-Mertens formula, the small finitistic dimension of a ring, Gorenstein rings, valuation overrings, the valuative dimension, and the Nagata rings. Chapter 6 goes on to present w modules over commutative rings as they are most commonly used in torsion theory and multiplicative ideal theory. Chapter 7 deals with multiplicative ideal theory over integral domains. Chapter 8 collects various results of pullbacks, especially Milnor squares and D - M constructions, which are probably the most important example-generating machines. In Chapter 9, coherent rings of finite weak global dimensions are probed, and the local ring of weak global dimension two is elaborated by combining homological tricks and methods of star operation theory. Chapter 10 is devoted to the Grothendieck group of a commutative ring. In particular, the Bass-Quillen problem is discussed. Finally, Chapter 11 introduces relative homological algebra, especially where the related notions of integral domains appearing in classical ideal theory are defined and studied using the class of Gorenstein projective modules. In Chapter 12, in this new edition, properties of cotorsion theories are introduced and show for any cotorsion pair how to construct their homology theory. Each section of the book is followed by a selection of exercises of varying difficulty. This book appeals to a wide readership from graduate students to academic researchers interested in studying commutative algebra.

Noncommutative Rings Susan Montgomery, Lance Small, 2012-12-06 This volume collects some of the survey lectures delivered at the Micro program on Noncommutative Rings held at MSRI, July 10-21, 1989. While the program was concerned with recent advances in ring theory, it also had as an important component lectures on related areas of mathematics where ring theory might be expected to have an impact. Thus there are lectures of S. P. Smith on quantum groups and Marc Rieffel on algebraic aspects of quantum field theory. Martin Lorenz and Donald Passman consider in their lectures various aspects of crossed products, homological and K-theoretic to group actions. Kenneth Brown presents the modern theory of Noetherian rings and localization. These contributions, as well as the others not presented here, show that ring theory remains a vigorous and useful area. The planning and organization of the program were done by the undersigned and the late Robert Warfield. His illness prevented his attendance at the meeting. It is to him we dedicate this volume. The organizers wish to extend their thanks to Irving Kaplansky, Director of MSRI, and the staff for all of their efforts in making this conference such a success.

Susan Montgomery
Lance Small

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GROUPS 69 Structured Ring Spectra Andrew Baker, Birgit Richter, 2004-11-18 This book contains some important new contributions to the theory of structured ring spectra Homological Algebra Henri Cartan, Samuel Eilenberg, 2016-06-02 When this book was written methods of algebraic topology had caused revolutions in the world of pure algebra To clarify the advances that had been made Cartan and Eilenberg tried to unify the fields and to construct the framework of a fully fledged theory The invasion of algebra had occurred on three fronts through the construction of cohomology theories for groups Lie algebras and associative algebras This book presents a single homology and also cohomology theory that embodies all three a large number of results is thus established in a general framework Subsequently each of the three theories is singled out by a suitable specialization and its specific properties are studied The starting point is the notion of a module over a ring The primary operations are the tensor product of two modules and the groups of all homomorphisms of one module into another From these higher order derived of operations are obtained which enjoy all the properties usually attributed to homology theories This leads in a natural way to the study of functors and of their derived functors This mathematical masterpiece will appeal to all mathematicians working in algebraic topology **Classes of Good Noetherian Rings** Cristodor Ionescu, 2023-03-28 This monograph provides an exhaustive treatment of several classes of Noetherian rings and morphisms of Noetherian local rings Chapters carefully examine some of the most important topics in the area including Nagata F finite and excellent rings Bertini s Theorem and Cohen factorizations Of particular interest is the presentation of Popescu s Theorem on Neron Desingularization and the structure of regular morphisms with a complete proof Classes of Good Noetherian Rings will be an invaluable resource for researchers in commutative algebra algebraic and arithmetic geometry and number theory **The Local Structure of Algebraic K-Theory** Bjørn Ian Dundas, Thomas G. Goodwillie, Randy McCarthy, 2012-09-06 Algebraic K theory encodes important invariants for several mathematical disciplines spanning from geometric topology and functional analysis to number theory and algebraic geometry As is commonly encountered this powerful mathematical object is very hard to calculate Apart from Quillen s calculations of finite fields and Suslin s calculation of algebraically closed fields few complete calculations were available before the discovery of homological invariants offered by motivic cohomology and topological cyclic homology This book covers the connection between algebraic K theory and B kstedt Hsiang and Madsen s topological cyclic homology and proves that the difference between the theories are locally constant The usefulness of this theorem stems from being more accessible for calculations than K theory and hence a single calculation of K theory can be used with homological calculations to obtain a host of nearby calculations in K theory For instance Quillen s calculation of the K theory of finite fields gives rise to Hesselholt and Madsen s calculations for local fields and Voevodsky s calculations for the integers give insight into the diffeomorphisms of manifolds In addition to the proof of the full integral version of the local correspondence between K theory and topological cyclic homology the book provides an introduction to the necessary background in algebraic K theory and highly structured homotopy theory collecting

all necessary tools into one common framework It relies on simplicial techniques and contains an appendix summarizing the methods widely used in the field The book is intended for graduate students and scientists interested in algebraic K theory and presupposes a basic knowledge of algebraic topology Rings and Homology James P. Jans, 2015-01-14 Geared toward

those who have completed a college course in basic algebra and seek an introduction to ring structure and homological algebra this concise text is suitable for advanced undergraduate and graduate students 1964 edition **Homology Theory**

P. J. Hilton, S. Wylie, 1967 This account of algebraic topology is complete in itself assuming no previous knowledge of the subject It is used as a textbook for students in the final year of an undergraduate course or on graduate courses and as a handbook for mathematicians in other branches who want some knowledge of the subject **Advances in**

Noncommutative Geometry Ali Chamseddine, Caterina Consani, Nigel Higson, Masoud Khalkhali, Henri Moscovici, Guoliang

Yu, 2020-01-13 This authoritative volume in honor of Alain Connes the foremost architect of Noncommutative Geometry presents the state of the art in the subject The book features an amalgam of invited survey and research papers that will no doubt be accessed read and referred to for several decades to come The pertinence and potency of new concepts and

methods are concretely illustrated in each contribution Much of the content is a direct outgrowth of the Noncommutative Geometry conference held March 23 April 7 2017 in Shanghai China The conference covered the latest research and future areas of potential exploration surrounding topology and physics number theory as well as index theory and its ramifications

in geometry Link Theory in Manifolds Uwe Kaiser, 2006-11-14 Any topological theory of knots and links should be based on simple ideas of intersection and linking In this book a general theory of link bordism in manifolds and universal constructions of linking numbers in oriented 3 manifolds are developed In this way classical concepts of link theory in the 3 spheres are generalized to a certain class of oriented 3 manifolds submanifolds of rational homology 3 spheres The techniques needed are described in the book but basic knowledge in topology and algebra is assumed The book should be of interest to those working in topology in particular knot theory and low dimensional topology **Women in Commutative**

Algebra Claudia Miller, Janet Striuli, Emily E. Witt, 2022-03-18 This volume features contributions from the Women in Commutative Algebra WICA workshop held at the Banff International Research Station BIRS from October 20 25 2019 run by the Pacific Institute of Mathematical Sciences PIMS The purpose of this meeting was for groups of mathematicians to work on joint research projects in the mathematical field of Commutative Algebra and continue these projects together long distance after its close The chapters include both direct results and surveys with contributions from research groups and individual authors The WICA conference was the first of its kind in the large and vibrant area of Commutative Algebra and this volume is intended to showcase its important results and to encourage further collaboration among marginalized practitioners in the field It will be of interest to a wide range of researchers from PhD students to senior experts

Elements Of Algebraic Topology James R. Munkres, 2018-03-05 Elements of Algebraic Topology provides the most

concrete approach to the subject With coverage of homology and cohomology theory universal coefficient theorems Kunneth theorem duality in manifolds and applications to classical theorems of point set topology this book is perfect for communicating complex topics and the fun nature of algebraic topology for beginners Commutative Algebra Irena Peeva, 2022-02-18 This contributed volume is a follow up to the 2013 volume of the same title published in honor of noted Algebraist David Eisenbud's 65th birthday It brings together the highest quality expository papers written by leaders and talented junior

mathematicians in the field of Commutative Algebra Contributions cover a very wide range of topics including core areas in Commutative Algebra and also relations to Algebraic Geometry Category Theory Combinatorics Computational Algebra Homological Algebra Hyperplane Arrangements and Non commutative Algebra The book aims to showcase the area and aid junior mathematicians and researchers who are new to the field in broadening their background and gaining a deeper understanding of the current research in this area Exciting developments are surveyed and many open problems are

discussed with the aspiration to inspire the readers and foster further research **Topology and Markets** Graciela Chichilnisky, This volume presents the proceedings of a workshop on geometry topology and markets held at The Fields Institute The workshop was attended by eminent mathematicians and financial and economic theorists Using a topological approach the volume discusses new mathematics and its applications to social sciences and financial markets Topics addressed at the workshop included new topological invariants for existence characterization and computation of market equilibria and their relation to social choice and to other forms of resource allocation competitive and cooperative systems algebraic geometry and markets with increasing returns computational complexity and stochastic processes and financial market New Perspectives and Challenges in Symplectic Field Theory Miguel Abreu, François Lalonde, Leonid Polterovich,

Commutative Algebra Luchezar L. Avramov, 2003 This volume contains 21 articles based on invited talks given at two international conferences held in France in 2001 Most of the papers are devoted to various problems of commutative algebra and their relation to properties of algebraic varieties The book is suitable for graduate students and research mathematicians interested in commutative algebra and algebraic geometry *History of Topology* I.M. James, 1999-08-24 Topology for many

years has been one of the most exciting and influential fields of research in modern mathematics Although its origins may be traced back several hundred years it was Poincaré who gave topology wings in a classic series of articles published around the turn of the century While the earlier history sometimes called the prehistory is also considered this volume is mainly concerned with the more recent history of topology from Poincaré onwards As will be seen from the list of contents the articles cover a wide range of topics Some are more technical than others but the reader without a great deal of technical knowledge should still find most of the articles accessible Some are written by professional historians of mathematics others by historically minded mathematicians who tend to have a different viewpoint **Operads: Proceedings of Renaissance**

Conferences Jean-Louis Loday, 1997 **H Ring Spectra and Their Applications** Robert R. Bruner, J. Peter May, James E.

McClure, Mark Steinberger, 2006-11-14

An Introduction to Homological Algebra Joseph J. Rotman, 2008-12-10

Homological Algebra has grown in the nearly three decades since the first edition of this book appeared in 1979. Two books discussing more recent results are Weibel *An Introduction to Homological Algebra* 1994 and Gelfand Manin *Methods of Homological Algebra* 2003. In their Foreword Gelfand and Manin divide the history of Homological Algebra into three periods: the first period ended in the early 1960s culminating in applications of Homological Algebra to regular local rings. The second period greatly influenced by the work of A. Grothendieck and J. P. Serre continued through the 1980s; it involves abelian categories and sheaf cohomology. The third period involving derived categories and triangulated categories is still ongoing. Both of these newer books discuss all three periods; see also Kashiwara Schapira *Categories and Sheaves*. The original version of this book discussed the first period only; this new edition remains at the same introductory level but it now introduces the second period as well. This change makes sense pedagogically for there has been a change in the mathematics population since 1979: today virtually all mathematics graduate students have learned something about functors and categories and so I can now take the categorical viewpoint more seriously. When I was a graduate student Homological Algebra was an unpopular subject. The general attitude was that it was a grotesque formalism, boring to learn and not very useful once one had learned it.

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