HOMOLOGICAL ALGEBRA

Henri Cartan
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[Algebra V Homological Algebra](#)

Charles A. Weibel

Algebra V Homological Algebra:

Algebra V Alekseĭ Ivanovich Kostrikin,Игорь Ростиславович Шафаревич,1994 **Homological Algebra** S.I. Gelfand,Yu.I. Manin,1994-03-29 This book the first printing of which was published as volume 38 of the Encyclopaedia of Mathematical Sciences presents a modern approach to homological algebra based on the systematic use of the terminology and ideas of derived categories and derived functors The book contains applications of homological algebra to the theory of sheaves on topological spaces to Hodge theory and to the theory of modules over rings of algebraic differential operators algebraic D modules The authors Gelfand and Manin explain all the main ideas of the theory of derived categories Both authors are well known researchers and the second Manin is famous for his work in algebraic geometry and mathematical physics The book is an excellent reference for graduate students and researchers in mathematics and also for physicists who use methods from algebraic geometry and algebraic topology **Homological Algebra** S.I. Gelfand,Yu.I. Manin,2013-12-01 This book the first printing of which was published as volume 38 of the Encyclopaedia of Mathematical Sciences presents a modern approach to homological algebra based on the systematic use of the terminology and ideas of derived categories and derived functors The book contains applications of homological algebra to the theory of sheaves on topological spaces to Hodge theory and to the theory of modules over rings of algebraic differential operators algebraic D modules The authors Gelfand and Manin explain all the main ideas of the theory of derived categories Both authors are well known researchers and the second Manin is famous for his work in algebraic geometry and mathematical physics The book is an excellent reference for graduate students and researchers in mathematics and also for physicists who use methods from algebraic geometry and algebraic topology *Homological Algebra* Henri Cartan,Samuel Eilenberg,1999-12-19 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 **An Introduction to Homological Algebra** Joseph J. Rotman,2008-12-10 Homological Algebra has grown in the nearly three decades since the rst e tion 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 rst period ended in the early 1960s culminating in applications of Ho logical Algebra to regular local rings The second period greatly in uenced by the work of A Grothendieck and J P Serre continued through the 1980s it involves abelian categories and sheaf cohomology The third period volving 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 rst period only this new edition remains at the same introductory level but it now introduces thesecond period as well This change makes sense pe gogically for there has been a change in the mathematics population since 1979 today virtually all mathematics graduate students have learned so thing 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   An Introduction to Homological Algebra Charles A. Weibel,1994 A portrait of the subject of homological algebra as it exists today   **Notes on Homological Algebras** Joseph J. Rotman,1970 These notes were developed in the course of teaching a graduate course on homological algebra at the University of Illinois Urbana during the spring of 1968 The reader proceeds at a leisurely pace prerequisites are algebra courses that include exact sequences tensor products over commutative rings and direct and inverse limits   **Methods of Homological Algebra** Sergei I. Gelfand,Yuri I. Manin,2002-11-26 This modern approach to homological algebra by two leading writers in the field is based on the systematic use of the language and ideas of derived categories and derived functors It describes relations with standard cohomology theory and provides complete proofs Coverage also presents basic concepts and results of homotopical algebra This second edition contains numerous corrections   **Homological Algebra** Henri Paul Cartain,Samuel Eilenberg,2007

  A Course in Homological Algebra P.J. Hilton,U. Stammbach,2013-03-09 In this chapter we are largely influenced in our choice of material by the demands of the rest of the book However we take the view that this is an opportunity for the student to grasp basic categorical notions which permeate so much of mathematics today including of course algebraic topology so that we do not allow ourselves to be rigidly restricted by our immediate objectives A reader totally unfamiliar with category theory may find it easiest to restrict his first reading of Chapter II to Sections 1 to 6 large parts of the book are understandable with the material presented in these sections Another reader who had already met many examples of categorical formulations and concepts might in fact prefer to look at Chapter II before reading Chapter I Of course the reader thoroughly familiar with category theory could in principal omit Chapter II except perhaps to familiarize himself with the notations employed In Chapter III we begin the proper study of homological algebra by looking in particular at the group ExtA A B where A and Bare A modules It is shown how this group can be calculated by means of a projective presentation of A or an injective presentation of B and how it may also be identified with the group of equivalence classes of extensions of

the quotient module A by the submodule B   <u>Methods of Homological Algebra</u> Sergei I. Gelfand,Yuri J. Manin,2013-04-17 Homological algebra first arose as a language for describing topological prospects of geometrical objects As with every successful language it quickly expanded its coverage and semantics and its contemporary applications are many and diverse This modern approach to homological algebra by two leading writers in the field is based on the systematic use of the language and ideas of derived categories and derived functors Relations with standard cohomology theory sheaf cohomology spectral sequences etc are described In most cases complete proofs are given Basic concepts and results of homotopical algebra are also presented The book addresses people who want to learn about a modern approach to homological algebra and to use it in their work   **Homological Algebra** Marco Grandis,2012 In this book we want to explore aspects of coherence in homological algebra that already appear in the classical situation of abelian groups or abelian categories Lattices of subobjects are shown to play an important role in the study of homological systems from simple chain complexes to all the structures that give rise to spectral sequences A parallel role is played by semigroups of endorelations These links rest on the fact that many such systems but not all of them live in distributive sublattices of the modular lattices of subobjects of the system The property of distributivity allows one to work with induced morphisms in an automatically consistent way as we prove in a Coherence Theorem for homological algebra On the contrary a non distributive homological structure like the bifiltered chain complex can easily lead to inconsistency if one explores the interaction of its two spectral sequences farther than it is normally done The same property of distributivity also permits representations of homological structures by means of sets and lattices of subsets yielding a precise foundation for the heuristic tool of Zeeman diagrams as universal models of spectral sequences We thus establish an effective method of working with spectral sequences called crossword chasing that can often replace the usual complicated algebraic tools and be of much help to readers that want to apply spectral sequences in any field   **Homological Algebra** S.I. Gelfand,Yu.I. Manin,2011-09-16 This book the first printing of which was published as volume 38 of the Encyclopaedia of Mathematical Sciences presents a modern approach to homological algebra based on the systematic use of the terminology and ideas of derived categories and derived functors The book contains applications of homological algebra to the theory of sheaves on topological spaces to Hodge theory and to the theory of modules over rings of algebraic differential operators algebraic D modules The authors Gelfand and Manin explain all the main ideas of the theory of derived categories Both authors are well known researchers and the second Manin is famous for his work in algebraic geometry and mathematical physics The book is an excellent reference for graduate students and researchers in mathematics and also for physicists who use methods from algebraic geometry and algebraic topology

Homological Algebra: In Strongly Non-abelian Settings Marco Grandis,2013-01-11 We propose here a study of semiexact and homological categories as a basis for a generalised homological algebra Our aim is to extend the homological notions to deeply non abelian situations where satellites and spectral sequences can still be studied This is a sequel of a book on

Homological Algebra The interplay of homology with distributive lattices and orthodox semigroups published by the same Editor but can be read independently of the latter The previous book develops homological algebra in p exact categories i e exact categories in the sense of Puppe and Mitchell a moderate generalisation of abelian categories that is nevertheless crucial for a theory of coherence and universal models of even abelian homological algebra The main motivation of the present much wider extension is that the exact sequences or spectral sequences produced by unstable homotopy theory cannot be dealt with in the previous framework According to the present definitions a semiexact category is a category equipped with an ideal of null morphisms and provided with kernels and cokernels with respect to this ideal A homological category satisfies some further conditions that allow the construction of subquotients and induced morphisms in particular the homology of a chain complex or the spectral sequence of an exact couple Extending abelian categories and also the p exact ones these notions include the usual domains of homology and homotopy theories e g the category of pairs of topological spaces or groups they also include their codomains since the sequences of homotopy objects for a pair of pointed spaces or a fibration can be viewed as exact sequences in a homological category whose objects are actions of groups on pointed sets   *The Arithmetic and Geometry of Algebraic Cycles* B. Brent Gordon,2000 The NATO ASI CRM Summer School at Banff offered a unique full and in depth account of the topic ranging from introductory courses by leading experts to discussions of the latest developments by all participants The papers have been organized into three categories cohomological methods Chow groups and motives and arithmetic methods As a subfield of algebraic geometry the theory of algebraic cycles has gone through various interactions with algebraic K theory Hodge theory arithmetic algebraic geometry number theory and topology These interactions have led to developments such as a description of Chow groups in terms of algebraic K theory the application of the Merkurjev Suslin theorem to the arithmetic Abel Jacobi mapping progress on the celebrated conjectures of Hodge and of Tate which compute cycles classgroups respectively in terms of Hodge theory or as the invariants of a Galois group action on tale cohomology the conjectures of Bloch and Beilinson which explain the zero or pole of the L function of a variety and interpret the leading non zero coefficient of its Taylor expansion at a criticalpoint in terms of arithmetic and geometric invariant of the variety and its cycle class groups The immense recent progress in the theory of algebraic cycles is based on its many interactions with several other areas of mathematics This conference was the first to focus on both arithmetic and geometric aspects of algebraic cycles It brought together leading experts to speak from their various points of view A unique opportunity was created to explore and view the depth and the breadth of the subject This volume presents the intriguing results   *An Elementary Approach to Homological Algebra* L.R. Vermani,2003-05-28 Often perceived as dry and abstract homological algebra nonetheless has important applications in a number of important areas including ring theory group theory representation theory and algebraic topology and geometry Although the area of study developed almost 50 years ago a textbook at this level has never before been available An Elementary Approach to

Homological Algebra fills that void Designed to meet the needs of beginning graduate students the author presents the material in a clear easy to understand manner with many examples and exercises The book s level of detail while not exhaustive also makes it useful for self study and as a reference for researchers   Introduction to Homological Algebra Sze-Tsen Hu,1968   An Introduction to Homological Algebra Douglas Geoffrey Northcott,1960 This book is designed with the needs and problems of the beginner in mind but will also be a useful work of reference for specialists   *A First Course of Homological Algebra* Douglas Geoffrey Northcott,1973-10-11 Designed to introduce the student to homological algebra avoiding the elaborate machinery usually associated with the subject   **Introduction to Homological Algebra, 85** Joseph J. Rotman,1979-09-07 An Introduction to Homological Algebra discusses the origins of algebraic topology It also presents the study of homological algebra as a two stage affair First one must learn the language of Ext and Tor and what it describes Second one must be able to compute these things and often this involves yet another language spectral sequences Homological algebra is an accessible subject to those who wish to learn it and this book is the author s attempt to make it lovable This book comprises 11 chapters with an introductory chapter that focuses on line integrals and independence of path categories and functors tensor products and singular homology Succeeding chapters discuss Hom and projectives injectives and flats specific rings extensions of groups homology Ext Tor son of specific rings the return of cohomology of groups and spectral sequences such as bicomplexes Kunneth Theorems and Grothendieck Spectral Sequences This book will be of interest to practitioners in the field of pure and applied mathematics

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