Methods of Homological Algebra

S. I. Gelfand
Yu. I. Manin

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Methods Of Homological Algebra

Sergei I. Gelfand,Yuri I. Manin

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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   Methods of Homological Algebra Sergeĭ Izrailevich Gelʹfand,I︠U︡. I. Manin,1996-01-01   **Methods of Homological Algebra** Sergei I. Gelfand,Yuri J. Manin,2014-01-15   **Methods of Homological Algebra** Sergei I. Gelfand,Yuri I. Manin,2014-01-15

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   **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   **Lectures on Algebraic Geometry I** Günter Harder,2011-09-15 This book and the following second volume is an introduction into modern algebraic geometry In the first volume the methods of homological algebra theory of sheaves and sheaf cohomology are developed These methods are indispensable for modern

algebraic geometry but they are also fundamental for other branches of mathematics and of great interest in their own In the last chapter of volume I these concepts are applied to the theory of compact Riemann surfaces In this chapter the author makes clear how influential the ideas of Abel Riemann and Jacobi were and that many of the modern methods have been anticipated by them For this second edition the text was completely revised and corrected The author also added a short section on moduli of elliptic curves with N level structures This new paragraph anticipates some of the techniques of volume II **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 *The Heart of Cohomology* Goro Kato,2006-11-08 If you have not heard about cohomology this book may be suited for you Fundamental notions in cohomology for examples functors representable functors Yoneda embedding derived functors spectral sequences derived categories are explained in elementary fashion Applications to sheaf cohomology are given Also cohomological aspects of D modules and of the computation of zeta functions of the Weierstrass family are provided Algebra, Arithmetic, and Geometry Yuri Tschinkel,Yuri Zarhin,2010-08-05 EMAlgebra Arithmetic and Geometry In Honor of Yu I ManinEM consists of invited expository and research articles on new developments arising from Manin s outstanding contributions to mathematics *Functor Categories, Model Theory, Algebraic Analysis and Constructive Methods* Alexander Martsinkovsky,2024-05-04 This volume comprises selected contributions by the participants of the second Functor Categories Model Theory Algebraic Analysis and Constructive Methods conference which took place at the University of Almer a Spain in July 2022 The conference was devoted to several seemingly unrelated fields functor categories model theory of modules algebraic analysis including linear control systems and constructive category theory to mention just a few The fact that these fields are actually related is a very recent realization The connections between these disciplines are changing in real time and the goal of this volume is to provide an initial reference point for this emerging interdisciplinary field Besides research articles the volume includes two extended lectures one on constructive methods in algebraic analysis and the other on the functorial approach to algebraic systems theory Hence in addition to its interestfor researchers the volume will also be an invaluable resource for newcomers **Lie Methods in Deformation Theory** Marco Manetti,2022-08-01 This book furnishes a comprehensive treatment of differential graded Lie algebras L infinity algebras and their use in deformation

theory We believe it is the first textbook devoted to this subject although the first chapters are also covered in other sources with a different perspective Deformation theory is an important subject in algebra and algebraic geometry with an origin that dates back to Kodaira Spencer Kuranishi Gerstenhaber and Grothendieck In the last 30 years a new approach based on ideas from rational homotopy theory has made it possible not only to solve long standing open problems but also to clarify the general theory and to relate apparently different features This approach works over a field of characteristic 0 and the central role is played by the notions of differential graded Lie algebra L infinity algebra and Maurer Cartan equations The book is written keeping in mind graduate students with a basic knowledge of homological algebra and complex algebraic geometry as utilized for instance in the book by K Kodaira Complex Manifolds and Deformation of Complex Structures Although the main applications in this book concern deformation theory of complex manifolds vector bundles and holomorphic maps the underlying algebraic theory also applies to a wider class of deformation problems and it is a prerequisite for anyone interested in derived deformation theory Researchers in algebra algebraic geometry algebraic topology deformation theory and noncommutative geometry are the major targets for the book **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 Topological Methods in Group Theory Ross Geoghegan,2007-12-27 This book is about the interplay between algebraic topology and the theory of infinite discrete groups It is a hugely important contribution to the field of topological and geometric group theory and is bound to become a standard reference in the field To keep the length reasonable and the focus clear the author assumes the reader knows or can easily learn the necessary algebra but wants to see the topology done in detail The central subject of the book is the theory of ends Here the author adopts a new algebraic approach which is geometric in spirit *Algebraic and Symbolic Computation Methods in Dynamical Systems* Alban Quadrat,Eva Zerz,2020-05-30 This book aims at reviewing recent progress in the direction of algebraic and symbolic computation methods for functional systems e g ODE systems differential time delay equations difference equations and integro differential equations In the nineties modern

algebraic theories were introduced in mathematical systems theory and in control theory Combined with real algebraic geometry which was previously introduced in control theory the past years have seen a flourishing development of algebraic methods in control theory One of the strengths of algebraic methods lies in their close connections to computations The use of the above mentioned algebraic theories in control theory has been an important source of motivation to develop effective versions of these theories when possible With the development of computer algebra and computer algebra systems symbolic methods for control theory have been developed over the past years The goal of this book is to propose a partial state of the art in this direction To make recent results more easily accessible to a large audience the chapters include materials which survey the main mathematical methods and results and which are illustrated with explicit examples *Set theoretic methods in homological algebra and abelian groups* ,1980 **Homological Methods in Commutative Algebra** S. Raghavan,Balwant Singh,R. Sridharan,1975 A Course in Homological Algebra Peter J. Hilton,Urs Stammbach,2012-09-05 We have inserted in this edition an extra chapter Chapter X entitled Some Applications and Recent Developments The first section of this chapter describes how homological algebra arose by abstraction from algebraic topology and how it has contributed to the knowledge of topology The other four sections describe applications of the methods and results of homological algebra to other parts of algebra Most of the material presented in these four sections was not available when this text was first published Naturally the treatments in these five sections are somewhat cursory the intention being to give the flavor of the homo logical methods rather than the details of the arguments and results We would like to express our appreciation of help received in writing Chapter X in particular to Ross Geoghegan and Peter Kropholler Section 3 and to Jacques Thevenaz Sections 4 and 5 The only other changes consist of the correction of small errors and of course the enlargement of the Index Peter Hilton Binghamton New York USA Urs Stammbach Zurich Switzerland Contents Preface to the Second Edition vii Introduction I Modules Effective Methods in Algebraic Geometry T. Mora,C. Traverso,2012-12-06 The symposium MEGA 90 Effective Methods in Algebraic Geome try was held in Castiglioncello Livorno Italy in April 17 211990 The themes we quote from the Call for papers were the fol lowing Effective methods and complexity issues in commutative algebra pro jective geometry real geometry algebraic number theory Algebraic geometric methods in algebraic computing Contributions in related fields computational aspects of group theory differential algebra and geometry algebraic and differential topology etc were also welcome The origin and the motivation of such a meeting that is supposed to be the first of a series deserves to be explained The subject the theory and the practice of computation in alge braic geometry and related domains from the mathematical viewpoin has been one of the themes of the symposia organized by SIGSAM the Special Interest Group for Symbolic and Algebraic Manipulation of the Association for Computing Machinery SAME Symbolic and Algebraic Manipulation in Europe and AAECC the semantics of the name is vary ing an average meaning is Applied Algebra and Error Correcting Codes **Mapping Cone Methods in Homological Algebra** Achim Kehrein,1999

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