# Rings, Modules and Linear Algebra

A further course in algebra describing the structure of Abelian groups and canonical forms of matrices through the study of rings and modules

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# **Rings Modules And Algebra**

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Rings, Modules and Radicals Andor Kertész, 1973 **Lectures on Rings and Modules** Joachim Lambek, 2009 This book is an introduction to the theory of associative rings and their modules designed primarily for graduate students The standard topics on the structure of rings are covered with a particular emphasis on the concept of the complete ring of quotients A survey of the fundamental concepts of algebras in the first chapter helps to make the treatment self contained The topics covered include selected results on Boolean and other commutative rings the classical structure theory of associative rings injective modules and rings of quotients The final chapter provides an introduction to homological algebra Besides three appendices on further results there is a six page section of historical comments Table of Contents Fundamental Concepts of Algebra 1 1 Rings and related algebraic systems 1 2 Subrings homomorphisms ideals 1 3 Modules direct products and direct sums 1 4 Classical isomorphism theorems Selected Topics on Commutative Rings 2 1 Prime ideals in commutative rings 2 2 Prime ideals in special commutative rings 2 3 The complete ring of quotients of a commutative ring 2 4 Rings of quotients of commutative semiprime rings 2 5 Prime ideal spaces Classical Theory of Associative Rings 3 1 Primitive rings 3 2 Radicals 3 3 Completely reducible modules 3 4 Completely reducible rings 3 5 Artinian and Noetherian rings 3 6 On lifting idempotents 3 7 Local and semiperfect rings Injectivity and Related Concepts 4 1 Projective modules 4 2 Injective modules 4 3 The complete ring of quotients 4 4 Rings of endomorphisms of injective modules 4 5 Regular rings of quotients 4 6 Classical rings of quotients 4 7 The Faith Utumi theorem Introduction to Homological Algebra 5 1 Tensor products of modules 5 2 Hom and otimes as functors 5 3 Exact sequences 5 4 Flat modules 5 5 Torsion and extension products Appendixes Comments Bibliography Index Review from Zentralblatt Math Due to their clarity and intelligible presentation these lectures on rings and modules are a particularly successful introduction to the surrounding circle of ideas Review from American Mathematical Monthly An introduction to associative rings and modules which requires of the reader only the mathematical maturity which one would attain in a first year graduate algebra course in order to make the contents of the book as accessible as possible the author develops all the fundamentals he will need In addition to covering the basic topics the author covers some topics not so readily available to the nonspecialist the chapters are written to be as independent as possible which will be appreciated by students making their first acquaintance with the subject one of the most successful features of the book is that it can be read by graduate students with little or no help from a specialist CHEL 283 H

Modules and the Structure of Rings Golan,1991-04-24 This book offers vital background information on methods for solving hard classification problems of algebraic structures It explains how algebraists deal with the problem of the structure of modules over rings and how they make use of these structures to classify rings Rings, Modules, and the Total Friedrich Kasch,Adolf Mader,2004-06-25 Accessible to anyone with a basic knowledge of ring and module theory A short introduction to torsion free Abelian groups is included

Algebras, Rings and Modules Michiel Hazewinkel,Nadiya M.

Gubareni,2016-04-05 The theory of algebras rings and modules is one of the fundamental domains of modern mathematics General algebra more specifically non commutative algebra is poised for major advances in the twenty first century together with and in interaction with combinatorics just as topology analysis and probability experienced in the twentieth centu

Exercises in Modules and Rings T.Y. Lam, 2009-12-08 The idea of writing this book came roughly at the time of publication of my graduate text Lectures on Modules and Rings Springer GTM Vol 189 1999 Since that time teaching obligations and intermittent intervention of other projects caused prolonged delays in the work on this volume Only a lucky break in my schedule in 2006 enabled me to put the finishing touches on the completion of this long overdue book This book is intended to serve a dual purpose First it is designed as a problem book for Lectures As such it contains the statements and full solutions of the many exercises that appeared in Lectures Second this book is also offered as a reference and repository for general information in the theory of modules and rings that may be hard to find in the standard textbooks in the field As a companion volume to Lectures this work covers the same math ematical material as its parent work namely the part of ring theory that makes substantial use of the notion of modules The two books thus share the same table of contents with the first half treating projective injective and flat modules homological and uniform dimensions and the second half dealing with noncommutative localizations and Goldie's theorems maximal rings of quotients Frobenius and quasi Frobenius rings conclud ing with Morita's theory of category equivalences and dualities Foundations of Module and Ring Theory Robert Wisbauer, 2018-05-11 This volume provides a comprehensive introduction to module theory and the related part of ring theory including original results as well as the most recent work It is a useful and stimulating study for those new to the subject as well as for researchers and serves as a reference volume Starting form a basic understanding of linear algebra the theory is presented and accompanied by complete proofs For a module M the smallest Grothendieck category containing it is denoted by o M and module theory is developed in this category Developing the techniques in o M is no more complicated than in full module categories and the higher generality yields significant advantages for example module theory may be developed for rings without units and also for non associative rings Numerous exercises are included in this volume to give further insight into the topics covered and to draw attention to related results in the literature Rings, Modules, Algebras, and Abelian Groups Alberto Facchini, Evan Houston, Luigi Salce, 2020-02-10 Rings Modules Algebras and Abelian Groups summarizes the proceedings of a recent algebraic conference held at Venice International University in Italy Surveying the most influential developments in the field this reference reviews the latest research on Abelian groups algebras and their representations module and ring theory and topological **Rings and Categories of Modules** Frank W. Anderson, Kent R. Fuller, 2012-12-06 This book is intended to provide a reasonably self contained account of a major portion of the general theory of rings and modules suitable as a text for introductory and more advanced graduate courses We assume the famil iarity with rings usually acquired in standard undergraduate algebra courses Our general approach is

categorical rather than arithmetical The continuing theme of the text is the study of the relationship between the one sided ideal structure that a ring may possess and the behavior of its categories of modules Following a brief outline of set theoretic and categorical foundations the text begins with the basic definitions and properties of rings modules and homomorphisms and ranges through comprehensive treatments of direct sums finiteness conditions the Wedderburn Artin Theorem the Jacobson radical the hom and tensor functions Morita equivalence and duality de composition theory of injective and projective modules and semi perfect and perfect rings In this second edition we have included a chapter containing many of the classical results on artinian rings that have hoped to form the foundation for much of the contemporary research on the representation theory of artinian rings and finite dimensional algebras Both to illustrate the text and to extend it we have included a substantial number of exercises covering a wide spectrum of difficulty There are of course many important areas of ring and module theory that the text does not touch upon Algebras, Rings and Modules Michiel Hazewinkel, Nadezhda Mikhaĭlovna Gubareni, Vladimir V. Kirichenko, 2010 The main goal of this book is to present an introduction to and applications of the theory of Hopf algebras The authors also discuss some important aspects of the theory of Lie algebras The first chapter can be viewed as a primer on Lie algebras with the main goal to explain and prove the Gabriel Bernstein Gelfand Ponomarev theorem on the correspondence between the representations of Lie algebras and quivers this material has not previously appeared in book form. The next two chapters are also primers on coalgebras and Hopf algebras respectively they aim specifically to give sufficient background on these topics for use in the main part of the book Chapters 4.7 are devoted to four of the most beautiful Hopf algebras currently known the Hopf algebra of symmetric functions the Hopf algebra of representations of the symmetric groups although these two are isomorphic they are very different in the aspects they bring to the forefront the Hopf algebras of the nonsymmetric and quasisymmetric functions these two are dual and both generalize the previous two and the Hopf algebra of permutations The last chapter is a survey of applications of Hopf algebras in many varied parts of mathematics and physics Unique features of the book include a new way to introduce Hopf algebras and coalgebras an extensive discussion of the many universal properties of the functor of the Witt vectors a thorough discussion of duality aspects of all the Hopf algebras mentioned emphasis on the combinatorial aspects of Hopf algebras and a survey of applications already mentioned The book also contains an extensive more than 700 entries bibliography The main goal of this book is to present an introduction to and applications of the theory of Hopf algebras The authors also discuss some important aspects of the theory of Lie algebras The first chapter can be viewed as a primer on Lie algebras with the main goal to explain and prove the Gabriel Bernstein Gelfand Ponomarev theorem on the correspondence between the representations of Lie algebras and quivers this material has not previously appeared in book form The next two chapters are also primers on coalgebras and Hopf algebras respectively they aim specifically to give sufficient background on these topics for use in the main part of the book Chapters 4.7 are devoted to four of the most

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