

Volume 2

Algebras, Rings and Modules

Non-commutative Algebras and Rings

**Michiel Hazewinkel
Nadiya Gubarení**



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A SCIENCE PUBLISHERS BOOK

Rings Modules And Algebra

Stuart A. Steinberg



Rings Modules And Algebra:

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 **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 mathematical 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, concluding with Morita's theory of category equivalences and dualities.

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 noncommutative 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 century.

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, Modules and Radicals Andor Kertész, 1973. **Ring and Module Theory** Toma Albu, Gary F. Birkenmeier, Ali Erdogan, Adnan Tercan, 2011-02-04. This book is a collection of invited papers and articles, many presented at the 2008 International Conference on Ring and Module Theory. The papers explore the latest in various areas of algebra, including ring theory, module theory, and commutative algebra.

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.

Groups, Rings And Modules With Applications M.R. Adhikari, A. Adhikari, 2003.

Modules and the Structure of Rings Golan, 2017-10-19. This textbook is designed for students with at least one solid semester of abstract algebra, some linear algebra background, and no previous knowledge of module theory. *Modules and the Structure of Rings* details the use of modules over a ring as a means of considering the structure of the ring itself, explaining the mathematics and inductive reasoning used in working on ring theory challenges and emphasizing modules instead of rings. Stressing the inductive aspect of mathematical research underlying the formal deductive style of the literature, this volume offers vital background on current methods for solving hard classification problems of algebraic structures. Written in an informal but completely rigorous style, *Modules and the Structure of Rings* clarifies sophisticated proofs, avoids the formalism of category theory, aids independent study or seminar work, and supplies end-of-chapter problems. This book serves as an

excellent primary text for upper level undergraduate and graduate students in one semester courses on ring or module theory laying a foundation for more advanced study of homological algebra or module theory

Algebra Carl Faith, 2012-12-06 VI of Oregon lectures in 1962 Bass gave simplified proofs of a number of Morita Theorems incorporating ideas of Chase and Schanuel One of the Morita theorems characterizes when there is an equivalence of categories $\text{mod } A \cong \text{mod } B$ for two rings A and B Morita's solution organizes ideas so efficiently that the classical Wedderburn Artin theorem is a simple consequence and moreover a similarity class AJ in the Brauer group $\text{Br } k$ of Azumaya algebras over a commutative ring k consists of all algebras B such that the corresponding categories $\text{mod } A$ and $\text{mod } B$ consisting of k linear morphisms are equivalent by a k linear functor For fields $\text{Br } k$ consists of similarity classes of simple central algebras and for arbitrary commutative k this is subsumed under the Azumaya 51.1 and Auslander Goldman 60J Brauer group Numerous other instances of a wedding of ring theory and category albeit a shotgun wedding are contained in the text Furthermore in my attempt to further simplify proofs notably to eliminate the need for tensor products in Bass's exposition I uncovered a vein of ideas and new theorems lying wholly within ring theory This constitutes much of Chapter 4 the Morita theorem is Theorem 4.29 and the basis for it is a correspondence theorem for projective modules Theorem 4.7 suggested by the Morita context As a by product this provides foundation for a rather complete theory of simple Noetherian rings but more about this in the introduction

Lectures on Modules and Rings Tsit-Yuen Lam, 2012-12-06 Textbook writing must be one of the cruelest of self inflicted tortures Carl Faith Math Reviews 54.5281 So why didn't I heed the warning of a wise colleague especially one who is a great expert in the subject of modules and rings The answer is simple I did not learn about it until it was too late My writing project in ring theory started in 1983 after I taught a year long course in the subject at Berkeley My original plan was to write up my lectures and publish them as a graduate text in a couple of years My hopes of carrying out this plan on schedule were however quickly dashed as I began to realize how much material was at hand and how little time I had at my disposal As the years went by I added further material to my notes and used them to teach different versions of the course Eventually I came to the realization that writing a single volume would not fully accomplish my original goal of giving a comprehensive treatment of basic ring theory At the suggestion of Ulrike Schmickler Hirzebruch then Mathematics Editor of Springer Verlag I completed the first part of my project and published the write up in 1991 as *A First Course in Noncommutative Rings* GTM 131 hereafter referred to as First Course or simply FC

Rings, Polynomials, and Modules Marco Fontana, Sophie Frisch, Sarah Glaz, Francesca Tartarone, Paolo Zanardo, 2017-11-11 This volume presents a collection of articles highlighting recent developments in commutative algebra and related non commutative generalizations It also includes an extensive bibliography and lists a substantial number of open problems that point to future directions of research in the represented subfields The contributions cover areas in commutative algebra that have flourished in the last few decades and are not yet well represented in book form Highlighted topics and research methods include Noetherian and non Noetherian ring theory

module theory and integer valued polynomials along with connections to algebraic number theory algebraic geometry topology and homological algebra Most of the eighteen contributions are authored by attendees of the two conferences in commutative algebra that were held in the summer of 2016 Recent Advances in Commutative Ring and Module Theory Bressanone Italy Conference on Rings and Polynomials Graz Austria There is also a small collection of invited articles authored by experts in the area who could not attend either of the conferences Following the model of the talks given at these conferences the volume contains a number of comprehensive survey papers along with related research articles featuring recent results that have not yet been published elsewhere *Algebra: Rings, modules, and categories* Carl Faith, 1973 Lattice-ordered Rings and Modules Stuart A. Steinberg, 2009-11-19 From the reviews Lattice ordered rings and modules are of interest both to algebraists and to functional analysts Previous authors have presented only those results that are needed for the applications that they have in mind Having a book like this one would be a great boon Both the algebraists and the analysts would benefit from having the fundamental results all gathered together in one book This book would fill in the gap admirably Any algebraist or functional analyst whose work involves ordered structures would be interested in this book That includes mathematicians who study lattices ordered semigroups ordered groups ordered rings ordered fields Riesz spaces vector lattices or Banach lattices It would also be useful for mathematicians who are interested in general ring theory general group theory matrix algebras or function algebras especially Banach algebras In short there is a wide audience who would find the tools that this book provides very useful Groups, Rings, Modules Maurice Auslander, David Buchsbaum, 2014-06-18 This classic monograph is geared toward advanced undergraduates and graduate students The treatment presupposes some familiarity with sets groups rings and vector spaces The four part approach begins with examinations of sets and maps monoids and groups categories and rings The second part explores unique factorization domains general module theory semisimple rings and modules and Artinian rings Part three's topics include localization and tensor products principal ideal domains and applications of fundamental theorem The fourth and final part covers algebraic field extensions and Dedekind domains Exercises are provided at the end of each chapter Dover 2014 republication of the edition originally published by Harper Row Publishers New York 1974 See every Dover book in print at www.doverpublications.com **Rings, Modules, and Preradicals** Ladislav Bican, T. Kepka, P. Němec, 1982 **Abelian Groups, Rings, Modules, and Homological Algebra** Pat Goeters, Overtoun M.G. Jenda, 2006-01-27 About the book In honor of Edgar Enochs and his venerable contributions to a broad range of topics in Algebra top researchers from around the world gathered at Auburn University to report on their latest work and exchange ideas on some of today's foremost research topics This carefully edited volume presents the refereed papers of the participants of these talks along with contributions from other veteran researchers who were unable to attend These papers reflect many of the current topics in Abelian Groups Commutative Algebra Commutative Rings Group Theory Homological Algebra Lie Algebras and Module Theory Accessible

even to beginning mathematicians many of these articles suggest problems and programs for future study This volume is an outstanding addition to the literature and a valuable handbook for beginning as well as seasoned researchers in Algebra

about the editors H PAT GOETERS completed his undergraduate studies in mathematics and computer science at Southern Connecticut State University and received his Ph D in 1984 from the University of Connecticut under the supervision of William J Wickless After spending one year in a post doctoral position in Wesleyan University under the tutelage of James D Reid Goeters was invited for a tenure track position in Auburn University by Ulrich F Albrecht Soon afterwards William Ullery and Overtoun Jenda were hired and so began a lively Algebra group OVERTOUN M G JENDA received his bachelor s degree in Mathematics from Chancellor College the University of Malawi He moved to the U S 1977 to pursue graduate studies at University of Kentucky earning his Ph D in 1981 under the supervision of Professor Edgar Enochs He then returned to Chancellor College where he was a lecturer assistant professor for three years He moved to the University of Botswana for another three year stint as a lecturer before moving back to the University of Kentucky as a visiting assistant professor in 1987 In 1988 he joined the Algebra research group at Auburn University

Rings, Modules and Linear Algebra B. Hartley, Trevor O. Hawkes, 1970-09 An account of how a certain fundamental algebraic concept can be introduced developed and applied to solve some concrete algebraic problems *Rings and Categories of Modules* Frank W. Anderson, Kent R. Fuller, 1992 This book is intended to provide a self contained account of much of the theory of rings and modules The theme of the text throughout is the relationship between the one sided ideal structure a ring may possess and the behavior of its categories of modules Following a brief outline of the foundations the book begins with the basic definitions and properties of rings modules and homomorphisms The remainder of the text gives comprehensive treatments of direct sums finiteness conditions the Wedderburn Artin Theorem the Jacobson radical the hom and tensor functions Morita equivalence and duality decomposition theory and semiperfect and perfect rings This second edition includes a chapter containing many of the classical results on Artinian rings that have helped form the foundation for much of contemporary research on the representation theory of Artinian rings and finite dimensional algebras

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