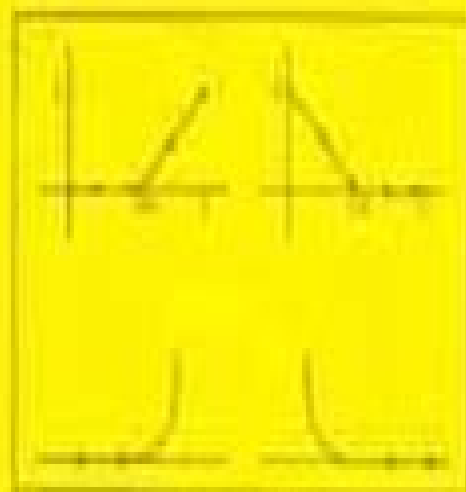


Introduction to
**Rings
and
Modules**

Second Revised Edition



C. M. R. M.



Rings And Modules

Carl Faith



Rings And Modules:

Ring Theory Kenneth Goodearl, 1976-03-01 **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

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 century *Rings, Modules and Radicals* Andor Kertész, 1973

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 familiarity 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 decomposition 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 helped 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

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 and Their Modules Paul E. Bland, 2011-02-01 This book is an introduction to the theory of rings and modules that goes beyond what one normally obtains in a graduate course in abstract algebra The theme of the text is the interplay between rings and modules At times rings are investigated by considering given sets of conditions on the modules they admit and at other times rings of a certain type are considered to see what structure is forced on their modules Standard topics in ring and module theory such as chain conditions on rings and modules injective and projective modules and semisimple rings are included as well as subjects like category theory and homological algebra The text also contains presentations on topics such as flat modules and coherent rings injective envelopes projective covers and perfect rings reflexive modules and quasi Frobenius rings and graded rings and modules The book is a self contained volume written in a very systematic style all proofs are clear and easy for the reader to understand and all arguments are based on materials contained in the book A problem sets follow each section It is assumed that the reader is familiar with concepts such as Zorn's lemma commutative diagrams and ordinal and cardinal numbers It is also

assumed that the reader has a basic knowledge of rings and their homomorphisms The text is suitable for graduate and PhD students who have chosen ring theory for their research subject 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 **An Introduction to Rings and Modules** A. J. Berrick, M. E. Keating, 2000-05 This is a concise 2000 introduction at graduate level to ring theory module theory and number theory **Lectures on Modules and Rings** Tsit-Yuen Lam, 1999 This new book can be read independently from the first volume and may be used for lecturing seminar and self study or for general reference It focuses more on specific topics in order to introduce readers to a wealth of basic and useful ideas without the hindrance of heavy machinery or undue abstractions User friendly with its abundance of examples illustrating the theory at virtually every step the volume contains a large number of carefully chosen exercises to provide newcomers with practice while offering a rich additional source of information to experts A direct approach is used in order to present the material in an efficient and economic way thereby introducing readers to a considerable amount of interesting ring theory without being dragged through endless preparatory material **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 *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 **Exercises in Modules and Rings** T.Y. Lam, 2006-12-15 This volume offers a compendium of exercises of varying degree of difficulty in the theory of modules and rings It is the companion volume to GTM 189 All exercises are solved in full detail Each section begins with an introduction giving the general background and the theoretical basis for the problems that follow **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.

Extensions of Rings and Modules Gary F. Birkenmeier, Jae Keol Park, Syed Tariq Rizvi, 2013-07-19. The extensions of rings and modules have yet to be explored in detail in a research monograph. This book presents state of the art research and also stimulating new and further research. Broken into three parts: Part I begins with basic notions, terminology, definitions, and a description of the classes of rings and modules; Part II considers the transference of conditions between a base ring or module and its extensions; and Part III utilizes the concept of a minimal essential extension with respect to a specific class, a hull. Mathematical interdisciplinary applications appear throughout. Major applications of the ring and module theory to Functional Analysis, especially C algebras, appear in Part III, making this book of interest to Algebra and Functional Analysis researchers. Notes and exercises at the end of every chapter and open problems at the end of all three parts lend this as an ideal textbook for graduate or advanced undergraduate students.

Rings, Modules, and Closure Operations Jesse Elliott, 2019-11-30. This book presents a systematic exposition of the various applications of closure operations in commutative and noncommutative algebra. In addition to further advancing multiplicative ideal theory, the book opens doors to the various uses of closure operations in the study of rings and modules, with emphasis on commutative rings and ideals. Several examples, counterexamples, and exercises further enrich the discussion and lend additional flexibility to the way in which the book is used, i.e. monograph or textbook for advanced topics courses.

Extensions of Rings and Modules Gary F. Birkenmeier, Jae Keol Park, SYED T RIZVI, 2013-09-14. The extensions of rings and modules have yet to be explored in detail in a research monograph. This book presents state of the art research and also stimulating new and further research. Broken into three parts: Part I begins with basic notions, terminology, definitions, and a description of the classes of rings and modules; Part II considers the transference of conditions between a base ring or module and its extensions; and Part III utilizes the concept of a minimal essential extension with respect to a specific class, a hull. Mathematical interdisciplinary applications appear throughout. Major applications of the ring and module theory to Functional Analysis, especially C algebras, appear in Part III, making this book of interest to Algebra and Functional Analysis researchers. Notes and exercises at the end of every chapter and open problems at the end of all three parts lend this as an ideal textbook for graduate or advanced undergraduate students.

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 $Br\ k$ 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 $Br\ k$ 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 shot gun 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

Integral Closure of Ideals, Rings, and Modules Craig Huneke, Irena Swanson, 2006-10-12 Ideal for graduate students and researchers this book presents a unified treatment of the central notions of integral closure

Rings and Modules of Quotients B. Stenström, 2006-11-15

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