

Volume 2

# Algebras, Rings and Modules

## Non-commutative Algebras and Rings

Michiel Hazewinkel  
Nadiya Gubarenko



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# Algebras Rings And Modules

**Michiel Hazewinkel, V. V. Kirichenko**



## **Algebras Rings And Modules:**

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**Algebras, Rings and Modules** Michiel Hazewinkel, Nadiya Gubareni, V.V. Kirichenko, 2009-09-03      *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, Volume 2 Michiel Hazewinkel, Nadiya M. Gubareni, 2017-04-11 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 This is the second volume of Algebras Rings and Modules Non commutative Algebras and Rings by M Hazewinkel and N Gubarenis a continuation stressing the more important recent results on advanced topics of the structural theory of associative algebras rings and modules

**Algebras, Rings and Modules** Michiel Hazewinkel, Nadezhda Mikhailovna Gubarenis, 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 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 *Algebras, Rings and Modules* Michiel Hazewinkel, V. V. Kirichenko, 2005 *Algebras, Rings and Modules* Michiel Hazewinkel, Nadezhda Mikhailovna Gubareni, Nadiya Gubareni, V. V. Kirichenko, 2004 This second volume of this text covers the classical aspects of the theory of groups and their representations It also offers a general introduction to the modern theory of representations including the representations of quivers and finite partially ordered sets and their applications to finite dimensional algebras It reviews key recent developments in the theory of special ring classes including Frobenius quasi Frobenius and others *Algebras, Rings and Modules* Michiel Hazewinkel, Vladimir V. Kirichenko, 2007 As a natural continuation of the first volume of *Algebras Rings and Modules* this book provides both the classical aspects of the theory of groups and their representations as well as a general introduction to the modern theory of representations including the representations of quivers and finite partially ordered sets and their applications to finite dimensional algebras Detailed attention is given to special classes of algebras and rings including Frobenius quasi Frobenius right serial rings and tiled orders using the technique of quivers The most important recent developments in the theory of these rings are examined The Cartan Determinant Conjecture and some properties of global dimensions of different classes of rings are also given The last chapters of this volume provide the theory of semiprime Noetherian semiperfect and semidistributive rings Of course this book is mainly aimed at researchers in the theory of rings and algebras but graduate and postgraduate students especially those using algebraic techniques should also find this book of interest *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 **Algebras,**

**Rings and Modules** Michiel Hazewinkel, Nadiya Gubareni, V.V. Kirichenko, 2007-09-12 This second volume of this text covers the classical aspects of the theory of groups and their representations. It also offers a general introduction to the modern theory of representations including the representations of quivers and finite partially ordered sets and their applications to finite dimensional algebras. It reviews key recent developments in the theory of special ring classes including Frobenius quasi-Frobenius and others.

**Rings, Modules, and Algebras in Stable Homotopy Theory** Anthony D. Elmendorf, 1997 This book introduces a new point set level approach to stable homotopy theory that has already had many applications and promises to have a lasting impact on the subject. Given the sphere spectrum  $S$  the authors construct an associative commutative and unital smash product in a complete and cocomplete category of  $S$  modules whose derived category is equivalent to the classical stable homotopy category. This construction allows for a simple and algebraically manageable definition of  $S$  algebras and commutative  $S$  algebras in terms of associative or associative and commutative products  $R \wedge SR \rightarrow R$ . These notions are essentially equivalent to the earlier notions of  $A$ -infty and  $E$ -infty ring spectra and the older notions feed naturally into the new framework to provide plentiful examples. There is an equally simple definition of  $R$  modules in terms of maps  $R \wedge SM \rightarrow M$ . When  $R$  is commutative the category of  $R$  modules also has a

*Extensions of Rings and Modules* Gary F. Birkenmeier, Jae Keol Park, S 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. This book is 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.

**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.

**Algebra: Rings, modules, and categories** Carl Faith, 1973 **Algebras, Rings, and Modules** Michiel Hazewinkel, Nadezhda Mikhailovna Gubareni, Vladimir V. Kirichenko, 2010-01-01 **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. *Rings, Modules, Algebras, and Abelian Groups* Alberto Facchini, 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, 1998-08-18

**Algebras and Modules I** Idun Reiten, Sverre O. Smalø, Øyvind Solberg, Canadian Mathematical Society, 1998 Surveys developments in the representation theory of finite dimensional algebras and related topics in seven papers illustrating different techniques developed over the recent years For graduate students and researchers with a background in commutative algebra including rings modules and homological algebra Suitable as a text for an advanced graduate course No index Member prices are 31 for institutions and 23 for individuals and are available to members of the Canadian Mathematical Society Annotation copyrighted by Book News Inc Portland OR

**Lectures on Rings and Modules** Karl Heinrich Hofmann, 1972 From September 1970 through May 1971 Tulane University organized a special year long program in the theory of noncommutative rings and operator algebras Visitors from various institutions of the U S A and abroad contributed to a series of lectures in which they covered recent advances in their own field of specialty These notes contain these lectures to the extent that they have not appeared elsewhere This volume represents the purely algebraic side of the program with lectures in the structure theory of ring and modules

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