

Algebras, Rings and Modules

Non-commutative Algebras and Rings

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CRC Press
Taylor & Francis Group

A SCIENCE PUBLISHERS BOOK

Algebras Rings Modules Non Commutative

Matej Brešar



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Algebras, Rings and Modules Michiel Hazewinkel, Nadiya Gubareni, V.V. Kirichenko, 2004-10-01 Associative rings and algebras are very interesting algebraic structures. In a strict sense the theory of algebras in particular noncommutative algebras originated from a single example namely the quaternions created by Sir William R. Hamilton in 1843. This was the first example of a noncommutative numbers system. During the next forty years mathematicians introduced other examples of noncommutative algebras began to bring some order into them and to single out certain types of algebras for special attention. Thus low dimensional algebras division algebras and commutative algebras were classified and characterized. The first complete results in the structure theory of associative algebras over the real and complex fields were obtained by T. Molien, E. Cartan and G. Frobenius. Modern ring theory began when J. H. Wedderburn proved his celebrated classification theorem for finite dimensional semisimple algebras over arbitrary fields. Twenty years later E. Artin proved a structure theorem for rings satisfying both the ascending and descending chain condition which generalized Wedderburn structure theorem. The Wedderburn Artin theorem has since become a cornerstone of noncommutative ring theory. The purpose of this book is to introduce the subject of the structure theory of associative rings. This book is addressed to a reader who wishes to learn this topic from the beginning to research level. We have tried to write a self contained book which is intended to be a modern textbook on the structure theory of associative rings and related structures and will be accessible for independent study.

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. Gubareni is 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 Mikhaïlovna Gubareni, 2016 Volume 3 systematizes and presents the main results of the structure theory of some special classes of non commutative rings. The book presents both the basic classical theory and more recent results related to current research such as the structure theory of some special classes of rings which arise in many applications. Some of the topics covered include quivers partially ordered sets and their representations as well as such special rings as hereditary and semihereditary rings serial rings semidistributive rings and modules over them.

A First Course in Noncommutative Rings Tsit-Yuen Lam, 2001-06-21 Aimed at the novice rather than the connoisseur and stressing the role of examples and motivation this text is suitable not only for use in a graduate course but also for self study in the subject by interested graduate students. More than 400 exercises testing the understanding of the general theory in the text are

included in this new edition

Noncommutative Rings, Group Rings, Diagram Algebras and Their Applications

Surender Kumar Jain, S. Parvathi, Dinesh Khurana, 2008 Articles in this volume are based on talks given at the International Conference on Noncommutative Rings Group Rings Diagram Algebras and Their Applications The conference provided researchers in mathematics with the opportunity to discuss new developments in these rapidly growing fields This book contains several excellent articles both expository and original with new and significant results It is suitable for graduate students and researchers interested in Ring Theory Diagram Algebras and related topics

Introduction to

Noncommutative Algebra Matej Brešar, 2025-08-29 This textbook offers an elementary introduction to noncommutative rings and algebras Beginning with the classical theory of finite dimensional algebras it then develops a more general structure theory of rings grounded in modules and tensor products The final chapters cover free algebras polynomial identities and rings of quotients Many results are presented in a simplified form rather than in full generality with an emphasis on clear and understandable exposition Prerequisites are kept to a minimum and new concepts are introduced gradually and carefully motivated Introduction to Noncommutative Algebra is thus accessible to a broad mathematical audience though it is primarily intended for beginning graduate students and advanced undergraduates encountering the subject for the first time This new edition includes several additions and improvements while preserving the original text's character and approach Praise for the first edition It will soon find its place in classrooms Plamen Koshlukov Mathematical Reviews Very well written very pleasant to read Veereshwar A Hiremath zbMATH An excellent choice for a first graduate course D S Larson Choice

Non-Commutative Ring Theory Cosmin Roman Sergio R Lopez-Permouth, 2025-06-30

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

Abelian Groups, Rings, Modules, and Homological Algebra Pat Goeters, Overtoun M.G. Jenda, 2016-04-19 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 par Algebras, Rings and Modules Michiel Hazewinkel,Nadezhda Mikhaïlovna 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 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

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Algebras Rings Modules Non Commutative Introduction

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