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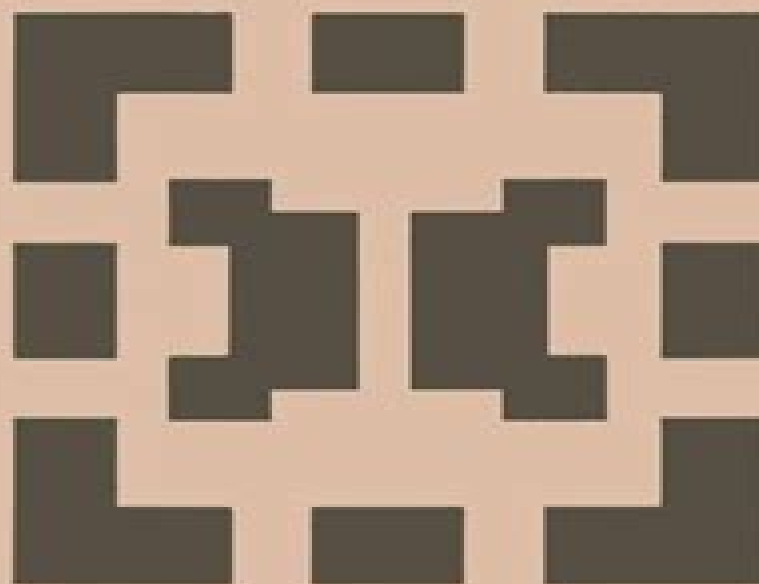
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   Semidistributive Modules and Rings A.A. Tuganbaev,2012-12-06 A module M is called distributive if the lattice Lat M of all its submodules is distributive i e Fn G H FnG FnH for all submodules F G and H of the module M A module M is called uniserial if all its submodules are comparable with respect to inclusion i e the lattice Lat M is a chain Any direct sum of distributive resp uniserial modules is called a semidistributive resp serial module The class of distributive resp semidistributive modules properly cont ains the class ofall uniserial resp serial modules In particular all simple resp semisimple modules are distributive resp semidistributive All strongly regular rings for example all factor rings of direct products of division rings and all commutative regular rings are distributive all valuation rings in division rings and all commutative Dedekind rings e g rings of integral algebraic numbers or commutative principal ideal rings are distributive A module is called a Bezout module or a locally cyclic module ifevery finitely generated submodule is cyclic If all maximal right ideals of a ring A are ideals e g if A is commutative then all Bezout A modules are distributive   **Semidistributive Modules and Rings** Askar Tuganbaev,2012-10-15 A module M is called distributive if the lattice Lat M of all its submodules is distributive i e Fn G H FnG FnH for all submodules F G and H of the module M A module M is called uniserial if all its submodules are comparable with respect to inclusion i e the lattice Lat M is a chain Any direct sum of distributive resp uniserial modules is called a semidistributive resp serial module The class of distributive resp semidistributive modules properly cont ains the class ofall uniserial resp serial modules In particular all simple resp semisimple modules are distributive resp semidistributive All strongly regular rings for example all factor rings of direct products of division rings and all commutative regular rings are distributive all valuation rings in division rings and all commutative Dedekind rings e g rings of integral algebraic numbers or commutative principal ideal rings are distributive A module is called a Bezout module or a locally cyclic module ifevery finitely generated submodule is cyclic If all maximal right ideals of a ring A are ideals e g if A is commutative then all Bezout A modules are distributive   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,Nadiya Gubareni,V.V. Kirichenko,2006-01-18 Accosiative rings and algebras are very interesting algebraic structures In a strict sense the theory of algebras in particular noncommutative algebras originated fromasingleexample namelythequaternions createdbySirWilliamR Hamilton in1843 Thiswasthe rstexampleofanoncommutative numbersystem During

thenextfortyyearsmathematiciansintroducedotherexamplesofnoncommutative 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 classi ed and characterized The rst complete results in the structure theory of associative algebras over the real and complex elds were obtained by T Molien E Cartan and G Frobenius Modern ring theory began when J H Wedderburn proved his celebrated cl si cation theorem for nite dimensional semisimple algebras over arbitrary elds 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 corn stone 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 **Handbook of Algebra** M. Hazewinkel,2000-04-06 Handbook of Algebra *Distributive Modules and Related Topics* Askar Tuganbaev,1999-08-19 A comprehensive introduction to the homological and structural methods of ring theory and related topics this book includes original results as well as the most recent work in the field It is unique in that it concentrates on distributive modules and rings an area in which the author is recognized as one of the world s leading experts A module is said to be distributive if the lattice of its submodules is distributive Distributive rings are exemplified by factor rings of direct products of division rings commutative semihereditary rings and uniserial rings Direct sums of distributive modules are studied in detail as well as relations with flat modules and modules whose endomorphisms could be extended or lifted Starting from a basic understanding of linear algebra the theory is presented and accompanied by complete proofs A number of exercises are also included to give further insight into the topics covered and to draw attention to relevant results in the literature This detailed and comprehensive book will be an invaluable source of reference to researchers and specialists in this area **Free Ideal Rings and Localization in General Rings** P. M. Cohn,2006-06-08 Proving that a polynomial ring in one variable over a field is a principal ideal domain can be done by means of the Euclidean algorithm but this does not extend to more variables However if the variables are not allowed to commute giving a free associative algebra then there is a generalization the weak algorithm which can be used to prove that all one sided ideals are free This book presents the theory of free ideal rings firs in detail Particular emphasis is placed on rings with a weak algorithm exemplified by free associative algebras There is also a full account of localization which is treated for general rings but the features arising in firs are given special attention Each section has a number of exercises including some open problems and each chapter ends in a historical note **Cyclic Modules and the Structure of Rings** S. K. Jain,Ashish K. Srivastava,Askar A. Tuganbaev,2012-09-27 This unique and comprehensive volume provides an up to date account of the literature on the subject of determining the structure of rings over which cyclic modules or proper

cyclic modules have a finiteness condition or a homological property The finiteness conditions and homological properties are closely interrelated in the sense that either hypothesis induces the other in some form This is the first book to bring all of this important material on the subject together Over the last 25 years or more numerous mathematicians have investigated rings whose factor rings or factor modules have a finiteness condition or a homological property They made important contributions leading to new directions and questions which are listed at the end of each chapter for the benefit of future researchers There is a wealth of material on the topic which is combined in this book it contains more than 200 references and is not claimed to be exhaustive This book will appeal to graduate students researchers and professionals in algebra with a knowledge of basic noncommutative ring theory as well as module theory and homological algebra equivalent to a one year graduate course in the theory of rings and modules   Laurent Series Rings and Related Rings Askar Tuganbaev,2020-09-21 In this book ring theoretical properties of skew Laurent series rings A x over a ring A where A is an associative ring with non zero identity element are described In addition we consider Laurent rings and Malcev Neumann rings which are proper extensions of skew Laurent series rings   **Arithmetical Rings and Endomorphisms** Askar Tuganbaev,2019-06-04 This book offers a comprehensive account of not necessarily commutative arithmetical rings examining structural and homological properties of modules over arithmetical rings and summarising the interplay between arithmetical rings and other rings whereas modules with extension properties of submodule endomorphisms are also studied in detail Graduate students and researchers in ring and module theory will find this book particularly valuable   **Invariance of Modules under Automorphisms of their Envelopes and Covers** Ashish K. Srivastava,Askar Tuganbaev,Pedro A. Guil Asensio,2021-03-18 The theory of invariance of modules under automorphisms of their envelopes and covers has opened up a whole new direction in the study of module theory It offers a new perspective on generalizations of injective pure injective and flat cotorsion modules beyond relaxing conditions on liftings of homomorphisms This has set off a flurry of work in the area with hundreds of papers using the theory appearing in the last decade This book gives the first unified treatment of the topic The authors are real experts in the area having played a major part in the breakthrough of this new theory and its subsequent applications The first chapter introduces the basics of ring and module theory needed for the following sections making it self contained and suitable for graduate students The authors go on to develop and explain their tools enabling researchers to employ them extend and simplify known results in the literature and to solve longstanding problems in module theory many of which are discussed at the end of the book   **Groups, Rings, Lie and Hopf Algebras** ,2003-03-31 The volume is almost entirely composed of the research and expository papers by the participants of the International Workshop Groups Rings Lie and Hopf Algebras which was held at the Memorial University of Newfoundland St John s NF Canada All four areas from the title of the workshop are covered In addition some chapters touch upon the topics which belong to two or more areas at the same time Audience The readership targeted includes researchers graduate and senior undergraduate students in

mathematics and its applications   Ring Constructions and Applications Andrei V. Kelarev,2002 This book contains the definitions of several ring constructions used in various applications The concept of a groupoid graded ring includes many of these constructions as special cases and makes it possible to unify the exposition Recent research results on groupoid graded rings and more specialized constructions are presented In addition there is a chapter containing open problems currently considered in the literature Ring Constructions and Applications can serve as an excellent introduction for graduate students to many ring constructions as well as to essential basic concepts of group semigroup and ring theories used in proofs Contents Preliminaries Graded Rings Examples of Ring Constructions The Jacobson Radical Groups of Units Finiteness Conditions PI Rings and Varieties Gradings of Matrix Rings Examples of Applications Open Problems Readership Graduate students and researchers using ring constructions in their work   **Formal Matrices** Piotr Krylov,Askar Tuganbaev,2017-03-30 This monograph is a comprehensive account of formal matrices examining homological properties of modules over formal matrix rings and summarising the interplay between Morita contexts and K theory While various special types of formal matrix rings have been studied for a long time from several points of view and appear in various textbooks for instance to examine equivalences of module categories and to illustrate rings with one sided non symmetric properties this particular class of rings has so far not been treated systematically Exploring formal matrix rings of order 2 and introducing the notion of the determinant of a formal matrix over a commutative ring this monograph further covers the Grothendieck and Whitehead groups of rings Graduate students and researchers interested in ring theory module theory and operator algebras will find this book particularly valuable Containing numerous examples Formal Matrices is a largely self contained and accessible introduction to the topic assuming a solid understanding of basic algebra   **Rings Close to Regular** A.A. Tuganbaev,2013-03-09 Preface All rings are assumed to be associative and except for nilrings and some stipulated cases to have nonzero identity elements A ring A is said to be regular if for every element a E A there exists an element b E A with a aba Regular rings are well studied For example 163 and 350 are devoted to regular rings A ring A is said to be tr regular if for every element a E A there is an element n b E A such that an anba for some positive integer n A ring A is said to be strongly tr regular if for every a E A there is a positive integer n with n 1 n an E a An Aa 1 It is proved in 128 that A is a strongly tr regular ring if and only if for every element a E A there is a positive integer m with m 1 am E a a A Every strongly tr regular ring is tr regular 38 If F is a division ring and M is a right vector F space with infinite basis ei l then End MF is a regular and tr regular ring that is not strongly tr regular The factor ring of the ring of integers with respect to the ideal generated by the integer 4 is a strongly tr regular ring that is not regular   *Formal Power Series and Algebraic Combinatorics* Daniel Krob,Alexander A. Mikhalev,Alexander V. Mikhalev,2013-03-09 This book contains the extended abstracts presented at the 12th International Conference on Power Series and Algebraic Combinatorics FPSAC 00 that took place at Moscow State University June 26 30 2000 These proceedings cover the most recent trends in algebraic and bijective

combinatorics including classical combinatorics combinatorial computer algebra combinatorial identities combinatorics of classical groups Lie algebra and quantum groups enumeration symmetric functions young tableaux etc **Ring Theory and Its Applications** Dinh Van Huynh, S. K. Jain, Sergio R. López-Permouth,S. Tariq Rizvi,Cosmin S. Roman,2014-02-21 This volume contains the proceedings of the Ring Theory Session in honor of T Y Lam s 70th birthday at the 31st Ohio State Denison Mathematics Conference held from May 25 27 2012 at The Ohio State University Columbus Ohio Included are expository articles and research papers covering topics such as cyclically presented modules Eggert s conjecture the Mittag Leffler conditions clean rings McCoy rings QF rings projective and injective modules Baer modules and Leavitt path algebras Graduate students and researchers in many areas of algebra will find this volume valuable as the papers point out many directions for future work in particular several articles contain explicit lists of open questions **The Concise Handbook of Algebra** Alexander V. Mikhalev,G.F. Pilz,2013-06-29 It is by no means clear what comprises the heart or core of algebra the part of algebra which every algebraist should know Hence we feel that a book on our heart might be useful We have tried to catch this heart in a collection of about 150 short sections written by leading algebraists in these areas These sections are organized in 9 chapters A B I Of course the selection is partly based on personal preferences and we ask you for your understanding if some selections do not meet your taste for unknown reasons we only had problems in the chapter Groups to get enough articles in time We hope that this book sets up a standard of what all algebraists are supposed to know in their chapters interested people from other areas should be able to get a quick idea about the area So the target group consists of anyone interested in algebra from graduate students to established researchers including those who want to obtain a quick overview or a better understanding of our selected topics The prerequisites are something like the contents of standard textbooks on higher algebra This book should also enable the reader to read the big Handbook Hazewinkel 1999 and other handbooks In case of multiple authors the authors are listed alphabetically so their order has nothing to do with the amounts of their contributions **Mathematical Reviews** ,2000 *Endomorphism Rings of Abelian Groups* P.A. Krylov,Alexander V. Mikhalev,A.A. Tuganbaev,2013-06-29 Every Abelian group can be related to an associative ring with an identity element the ring of all its endomorphisms Recently the theory of endomor phism rings of Abelian groups has become a rapidly developing area of algebra On the one hand it can be considered as a part of the theory of Abelian groups on the other hand the theory can be considered as a branch of the theory of endomorphism rings of modules and the representation theory of rings There are several reasons for studying endomorphism rings of Abelian groups first it makes it possible to acquire additional information about Abelian groups themselves to introduce new concepts and methods and to find new interesting classes of groups second it stimulates further develop ment of the theory of modules and their endomorphism rings The theory of endomorphism rings can also be useful for studies of the structure of additive groups of rings E modules and homological properties of Abelian groups The books of Baer 52 and Kaplansky 245 have played an important role in the early

development of the theory of endomorphism rings of Abelian groups and modules Endomorphism rings of Abelian groups are much stu died in monographs of Fuchs 170 172 and 173 Endomorphism rings are also studied in the works of Kurosh 287 Arnold 31 and Benabdallah 63

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