### B. A. F. Wehrfritz

ALGEBRA AND APPLICATIONS

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## Group and Ring Theoretic Properties of Polycyclic Groups



Springer

H. L. Manocha, J. B. Srivastava

*Group and Ring Theoretic Properties of Polycyclic Groups* B.A.F. Wehrfritz,2009-11-28 Polycyclic groups are built from cyclic groups in a specific way They arise in many contexts within group theory itself but also more generally in algebra for example in the theory of Noetherian rings The first half of this book develops the standard group theoretic techniques for studying polycyclic groups and the basic properties of these groups. The second half then focuses specifically on the ring theoretic properties of polycyclic groups and their applications often to purely group theoretic situations. The book is intended to be a study manual for graduate students and researchers coming into contact with polycyclic groups where the main lines of the subject can be learned from scratch Thus it has been kept short and readable with a view that it can be read and worked through from cover to cover At the end of each topic covered there is a description without proofs but with full references of further developments in the area An extensive bibliography then concludes the book **Theoretic Properties of Polycyclic Groups** B. A. F. Wehrfritz, 2010-04-17 Exercises in Cellular Automata and Groups Tullio Ceccherini-Silberstein, Michel Coornaert, 2023-11-01 This book complements the authors monograph Cellular Automata and Groups CAG Springer Monographs in Mathematics It consists of more than 600 fully solved exercises in symbolic dynamics and geometric group theory with connections to geometry and topology ring and module theory automata theory and theoretical computer science Each solution is detailed and entirely self contained in the sense that it only requires a standard undergraduate level background in abstract algebra and general topology together with results established in CAG and in previous exercises It includes a wealth of gradually worked out examples and counterexamples presented here for the first time in textbook form Additional comments provide some historical and bibliographical information including an account of related recent developments and suggestions for further reading The eight chapter division from CAG is maintained Each chapter begins with a summary of the main definitions and results contained in the corresponding chapter of CAG The book is suitable either for classroom or individual use Foreword by Rostislav I Grigorchuk Linear Groups Martyn R. Dixon, Leonid A. Kurdachenko, Igor Ya. Subbotin, 2020-04-03 Linear Groups The Accent on Infinite Dimensionality explores some of the main results and ideas in the study of infinite dimensional linear groups The theory of finite dimensional linear groups is one of the best developed algebraic theories. The array of articles devoted to this topic is enormous and there are many monographs concerned with matrix groups ranging from old classical texts to ones published more recently However in the case when the dimension is infinite and such cases arise quite often the reality is quite different The situation with the study of infinite dimensional linear groups is like the situation that has developed in the theory of groups in the transition from the study of finite groups to the study of infinite groups which appeared about one hundred years ago It is well known that this transition was extremely efficient and led to the development of a rich and central branch of algebra Infinite group theory The hope is that this book can be part of a similar transition in the field of linear groups Features This is the first book

dedicated to infinite dimensional linear groups This is written for experts and graduate students specializing in algebra and parallel disciplines This book discusses a very new theory and accumulates many important and useful results **Theory of Infinite Soluble Groups** John C. Lennox, Derek J. S. Robinson, 2004-08-19 The central concept in this monograph is that of a soluble group a group which is built up from abelian groups by repeatedly forming group extensions It covers all the major areas including finitely generated soluble groups soluble groups of finite rank modules over group rings algorithmic problems applications of cohomology and finitely presented groups whilst remaining fairly strictly within the boundaries of soluble group theory An up to date survey of the area aimed at research students and academic algebraists and group theorists it is a compendium of information that will be especially useful as a reference work for researchers in the **Model Theory and Applications** O.V. Belegradek, This volume is a collection of papers on model theory and its field applications The longest paper Model Theory of Unitriangular Groups by O V Belegradek forms a subtle general theory behind Mal tsev s famous correspondence between rings and groups This is the first published paper on the topic Given the present model theoretic interest in algebraic groups Belegradek's work is of particular interest to logicians and algebraists The rest of the collection consists of papers on various questions of model theory mainly on stability theory Contributors are leading Russian researchers in the field Algebra and its Applications H. L. Manocha, J. B. Srivastava, 1984-05-31 This volume unites more than fifty international mathematicians spotlighting research that demonstrates the importance of algebra in science and engineering Areas in algebra such as invariant theory group representations commutative algebra and algebraic geometry are important factors in such subjects as quantum physics computing and data communications The International Symposium on Algebra and Its Applications was organized by the Department of Mathematics of the Indian Institute of Technology and held in New Delhi India December 21 25 1981 This volume contains papers presented and the editors wish to express their appreciation to all the authors for their submissions and symposium participants for their enthusiasm Multiplicative Ideal Theory and Factorization Theory Scott Chapman, Marco Fontana, Alfred Geroldinger, Bruce Olberding, 2016-07-29 This book consists of both expository and research articles solicited from speakers at the conference entitled Arithmetic and Ideal Theory of Rings and Semigroups held September 22 26 2014 at the University of Graz Graz Austria It reflects recent trends in multiplicative ideal theory and factorization theory and brings together for the first time in one volume both commutative and non commutative perspectives on these areas which have their roots in number theory commutative algebra and algebraic geometry Topics discussed include topological aspects in ring theory Pr fer domains of integer valued polynomials and their monadic submonoids and semigroup algebras It will be of interest to practitioners of mathematics and computer science and researchers in multiplicative ideal theory factorization theory number theory and algebraic geometry Computational and Combinatorial Group Theory and Cryptography Benjamin Fine, Delaram Kahrobaei, Gerhard Rosenberger, 2012 This volume contains the proceedings of the AMS Special Session on

Computational Algebra Groups and Applications held April 30 May 1 2011 at the University of Nevada Las Vegas Nevada and the AMS Special Session on the Mathematical Aspects of Cryptography and Cyber Security held September 10 11 2011 at Cornell University Ithaca New York Over the past twenty years combinatorial and infinite group theory has been energized by three developments the emergence of geometric and asymptotic group theory the development of algebraic geometry over groups leading to the solution of the Tarski problems and the development of group based cryptography These three areas in turn have had an impact on computational algebra and complexity theory. The papers in this volume both survey and research exhibit the tremendous vitality that is at the heart of group theory in the beginning of the twenty first century as well as the diversity of interests in the field Encyclopaedia of Mathematics Michiel Hazewinkel, 2013-12-01 This ENCYCLOPAEDIA OF MATHEMATICS aims to be a reference work for all parts of mathe matics It is a translation with updates and editorial comments of the Soviet Mathematical Encyclopaedia published by Soviet Encyclopaedia Publishing House in five volumes in 1977 1985 The annotated translation consists of ten volumes including a special index volume There are three kinds of articles in this ENCYCLOPAEDIA First of all there are survey type articles dealing with the various main directions in mathematics where a rather fine subdivision has been used The main requirement for these articles has been that they should give a reasonably complete up to date account of the current state of affairs in these areas and that they should be maximally accessible On the whole these articles should be understandable to mathematics students in their first specialization years to graduates from other mathematical areas and depending on the specific subject to specialists in other domains of science en gineers and teachers of mathematics. These articles treat their material at a fairly general level and aim to give an idea of the kind of problems techniques and concepts involved in the area in question They also contain background and motivation rather than precise statements of precise theorems with detailed definitions and technical details on how to carry out proofs and constructions The second kind of article of medium length contains more detailed concrete problems results and techniques Algebras, Rings and Their Representations Alberto Facchini, 2006 Surveying the most influential developments in the field this proceedings reviews the latest research on algebras and their representations commutative and non commutative rings modules conformal algebras and torsion theories. The volume collects stimulating discussions from world renowned names including Tsit Yuen Lam Larry Levy Barbara Osofsky and Patrick Smith Sample Chapter's Chapter 1 Some Coreflective Categories of Topological Modules 221 KB Contents Krull Monoids and Their Application in Module Theory A Facchini Infinite Progenerator Sums A Facchini Quadratic Algebras of Skew Type E Jespers Representation Type of Commutative Noetherian Rings Introduction L Klingler Corner Ring Theory A Generalization of Peirce Decompositions T Y Lam Quasideterminants and Right Roots of Polynomials Over Division Rings B L Osofsky Injective Dimension Relative to a Torsion Theory P F Smith and other papers Readership Algebraists mathematicians interested in the connections between algebra and other fields and graduate students interested in algebra **Clifford Algebras and their** 

**Applications in Mathematical Physics** Rafał Abłamowicz, 2000 The first part of a two volume set concerning the field of Clifford geometric algebra this work consists of thematically organized chapters that provide a broad overview of cutting edge topics in mathematical physics and the physical applications of Clifford algebras algebras and their applications in physics Algebraic geometry cohomology non communicative spaces g deformations and the related quantum groups and projective geometry provide the basis for algebraic topics covered Physical applications and extensions of physical theories such as the theory of guaternionic spin a projective theory of hadron transformation laws and electron scattering are also presented showing the broad applicability of Clifford geometric algebras in solving physical problems Treatment of the structure theory of quantum Clifford algebras the connection to logic group representations and computational techniques including symbolic calculations and theorem proving rounds out the presentation Clifford Algebras and their Applications in Mathematical Physics Rafal Ablamowicz, Bertfried Fauser, 2012-12-06 The plausible relativistic physical variables describing a spinning charged and massive particle are besides the charge itself its Minkowski four po sition X its relativistic linear four momentum P and also its so called Lorentz four angular momentum E 0 the latter forming four trans lation invariant part of its total angular four momentum M Expressing these variables in terms of Poincare covariant real valued functions defined on an extended relativistic phase space 2 7J means that the mutual Pois son bracket relations among the total angular momentum functions Mab and the linear momentum functions pa have to represent the commutation relations of the Poincare algebra On any such an extended relativistic phase space as shown by Zakrzewski 2 7 the natural Poisson bracket relations 1 1 imply that for the splitting of the total angular momentum into its orbital and its spin part 1 2 one necessarily obtains 1 3 On the other hand it is always possible to shift translate the commuting see 1 1 four position xa by a four vector Xa 1 4 so that the total angular four momentum splits instead into a new orbital and a new Pauli Lubanski spin part 1 5 in such a way that 1 6 However as proved by Zakrzewski 2 7J the so defined new shifted four a position functions X **Semigroup Algebras** Okninski,2020-08-26 Gathers and unifies the must fulfill the following Poisson bracket relations 1 results of the theory of noncommutative semigroup rings primarily drawing on the literature of the last 10 years and including several new results Okninski Warsaw U Poland restricts coverage to the ring theoretical properties for which a systematic treatment is current Ring Theory, 83 Louis H. Rowen, 2012-12-02 This is an abridged edition of the author s previous two volume work Ring Theory which concentrates on essential material for a general ring theory course while ommitting much of the material intended for ring theory specialists It has been praised by reviewers As a textbook for graduate students Ring Theory joins the best The experts will find several attractive and pleasant features in Ring Theory The most noteworthy is the inclusion usually in supplements and appendices of many useful constructions which are hard to locate outside of the original sources The audience of nonexperts mathematicians whose speciality is not ring theory will find Ring Theory ideally suited to their needs They as well as students will be well served by the many examples of rings and the

glossary of major results NOTICES OF THE AMS 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

An Index and Other Useful Information A.

Dold, B. Eckmann, 2013-12-11

Publicationes mathematicae Kossuth Lajos Tudományegyetem. Matematikai Intézet, 1990

Reviews in K-theory, 1940-84 Bruce A. Magurn,1985 Skew PBW Extensions William Fajardo, Claudia Gallego, Oswaldo Lezama, Armando Reyes, Héctor Suárez, Helbert Venegas, 2020-12-11 This monograph is devoted to a new class of non commutative rings skew Poincar Birkhoff Witt PBW extensions Beginning with the basic definitions and ring module theoretic homological properties it goes on to investigate finitely generated projective modules over skew PBW extensions from a matrix point of view To make this theory constructive the theory of Gr bner bases of left right ideals and modules for bijective skew PBW extensions is developed For example syzygies and the Ext and Tor modules over these rings are computed Finally applications to some key topics in the noncommutative algebraic geometry of quantum algebras are given including an investigation of semi graded Koszul algebras and semi graded Artin Schelter regular algebras and the noncommutative Zariski cancellation problem The book is addressed to researchers in noncommutative algebra and algebraic geometry as well as to graduate students and advanced undergraduate students

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