

ALGEBRAS AND APPLICATIONS

# Endomorphism Rings of Abelian Groups

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# Endomorphism Rings Of Abelian Groups

**P.A. Krylov, Alexander V. Mikhalev, A.A.  
Tuganbaev**

## **Endomorphism Rings Of Abelian Groups:**

**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 endomorphism 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 development 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 studied in monographs of Fuchs 170 172 and 173 Endomorphism rings are also studied in the works of Kurosh 287 Arnold 31 and Benabdallah 63

**Endomorphism Rings of Abelian Groups** Piotr A. Krylov, Alexander V. Mikhalev, Askar Tuganbaev, 2003-07-31 Every Abelian group can be related to an associative ring with an identity element the ring of all its endomorphisms Recently the theory of endomorphism 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 development 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 studied 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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treatment of modules over discrete valuation domains which play an important role in various areas of algebra especially in commutative algebra Many important results representing the state of the art are presented in the text along with interesting open problems This updated edition presents new approaches on  $p$ -adic integers and modules and on the determinability of a module by its automorphism group Contents Preliminaries Basic facts Endomorphism rings of divisible and complete modules Representation of rings by endomorphism rings Torsion free modules Mixed modules Determinity of modules by their endomorphism rings Modules with many endomorphisms or automorphisms

**Groups, Modules, and Model Theory - Surveys and Recent Developments** Manfred Droste, László Fuchs, Brendan Goldsmith, Lutz Strüngmann, 2017-06-02 This volume focuses on group theory and model theory with a particular emphasis on the interplay of the two areas The survey papers provide an overview of the developments across group module and model theory while the research papers present the most recent study in those same areas With introductory sections that make the topics easily accessible to students the papers in this volume will appeal to beginning graduate students and experienced researchers alike As a whole this book offers a cross section view of the areas in group module and model theory covering topics such as DP minimal groups Abelian groups countable 1 transitive trees and module approximations The papers in this book are the proceedings of the conference New Pathways between Group Theory and Model Theory which took place February 1-4 2016 in Mülheim an der Ruhr Germany in honor of the editors colleague Rüdiger Göbel This publication is dedicated to Professor Göbel who passed away in 2014 He was one of the leading experts in Abelian group theory

**Encyclopaedia of Mathematics** Michiel Hazewinkel, 2012-12-06 This is the first Supplementary volume to Kluwer's highly acclaimed Encyclopaedia of Mathematics This additional volume contains nearly 600 new entries written by experts and covers developments and topics not included in the already published 10 volume set These entries have been arranged alphabetically throughout A detailed index is included in the book This Supplementary volume enhances the existing 10 volume set Together these eleven volumes represent the most authoritative comprehensive up to date Encyclopaedia of Mathematics available

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**Advances in Algebra and Model Theory** M Droste, R. Göbel, 2019-08-16 Contains 25 surveys in algebra and model theory all written by leading experts in the field The surveys are based around talks given at conferences held in Essen 1994 and Dresden 1995 Each contribution is written in such a way as to highlight the ideas that were discussed at the conferences and also to stimulate open research problems in a form accessible to the whole mathematical community The topics include field and ring theory as well as groups ordered algebraic structure and their relationship to model theory Several papers deal with infinite permutation groups abelian groups modules

and their relatives and representations Model theoretic aspects include quantifier elimination in skew fields Hilbert's 17th problem  $\aleph_0$  categorical structures and Boolean algebras Moreover symmetry questions and automorphism groups of orders are covered This work contains 25 surveys in algebra and model theory each is written in such a way as to highlight the ideas that were discussed at Conferences and also to stimulate open research problems in a form accessible to the whole mathematical community Abelian Groups and Their Endomorphism Rings and the Direct Decompositions and Quasi-endomorphisms of Torsion Free Abelian Groups Eleanor Green Dawley, Syracuse University. Graduate School, 1969

**Modules over Discrete Valuation Domains** Piotr A. Krylov, Askar A. Tuganbaev, 2008-08-27 This book provides the first systematic treatment of modules over discrete valuation domains which plays an important role in various areas of algebra especially in commutative algebra Many important results representing the state of the art are presented in the text which is supplemented by exercises and interesting open problems An important contribution to commutative algebra *Abelian Groups and Noncommutative Rings: A Collection of Papers in Memory of Robert B. Warfield, Jr.* László Fuchs, 1992 This collection of research papers is dedicated to the memory of the distinguished algebraist Robert B Warfield Jr Focusing on abelian group theory and noncommutative ring theory the book covers a wide range of topics reflecting Warfield's interests and includes two articles surveying his contributions to mathematics Because the articles have been refereed to high standards and will not appear elsewhere this volume is indispensable to any researcher in noncommutative ring theory or abelian group theory With papers by some of the major leaders in the field this book will also be important to anyone interested in these areas as it provides an overview of current research directions **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 **Direct Sum Decompositions of Torsion-Free Finite Rank Groups** Theodore G. Faticoni, 2007-03-28 With plenty of new material not found in other books Direct Sum Decompositions of Torsion Free Finite Rank Groups explores advanced topics in direct sum decompositions of abelian groups and their consequences The book illustrates a new way of studying these groups while still honoring the rich history of unique direct sum decompositions of groups Exercises in Algebra Alexandra I. Kostrikin, 1996-02-09 This

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