

Noetherian and Krull Rings (Mathematics and its Applications)

BALCERZYK, S

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Commutative Noetherian And Krull Rings

Hideyuki Matsumura



Commutative Noetherian And Krull Rings:

Commutative Noetherian and Krull Rings Stanisław Balcerzyk, Tadeusz Józefiak, 1989 **Commutative Noetherian and Krull Rings** Tadeusz Józefiak, 1969 **Krull Dimension** Robert Gordon, James Christopher Robson, 1973 This memoir is devoted to the study of Krull dimensions of modules over not necessarily commutative rings with identity. Although not all modules have a Krull dimension, Noetherian modules always do. There has been much interest in the Krull dimension of noncommutative Noetherian rings and their modules. In this memoir, as well as providing an exposition of much of what is known about Krull dimension, we study those rings and modules not necessarily Noetherian which have a Krull dimension. The results we obtain show that merely having a Krull dimension is a stringent condition with many Noetherian-like consequences. We expect these results and the methods involved to have applications to Noetherian and related rings. *An Introduction to Noncommutative Noetherian Rings* K. R. Goodearl, Robert B. Warfield, 1989 Introduces and applies the standard techniques in the area: ring of fractions, bimodules, Krull dimension, linked prime ideals. **Commutative rings and Tameness** Lee Klingler, Lawrence S. Levy, 2005 This memoir completes the series of papers beginning with KL1, KL2 showing that for a commutative noetherian ring Λ , either the category of Λ -modules of finite length has wild representation type or else we can describe the category of finitely generated Λ -modules including their direct sum relations and local/global relations. There is a possible exception to our results involving characteristic 2. *Slenderness* Radoslav Milan Dimitric, Radoslav Dimitric, 2019 A leading expert presents a unified concept of slenderness in Abelian categories with numerous open problems and exercises. **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. *International Symposium on Ring Theory* Gary F. Birkenmeier, 2001 Ring theory provides the algebraic underpinnings for

many areas of mathematics computer science and physics For example ring theory appears in functional analysis algebraic topology algebraic number theory coding theory and in the study of quantum theory This volume is a collection of research papers many presented at the 3rd Korea China Japan International Symposium on Ring Theory held jointly with the 2nd Korea Japan Ring Theory Seminar in Korea The articles examine wide ranging developments and methodologies in various areas including classical Hopf algebras and quantum groups

Algebra II A.I. Kostrikin, I.R. Shafarevich, 2012-12-06 The algebra of square matrices of size n^2 over the field of complex numbers is evidently the best known example of a non commutative algebra Subalgebras and subrings of this algebra for example the ring of $n \times n$ matrices with integral entries arise naturally in many areas of mathematics Historically however the study of matrix algebras was preceded by the discovery of quaternions which introduced in 1843 by Hamilton found applications in the classical mechanics of the past century Later it turned out that quaternion analysis had important applications in field theory The algebra of quaternions has become one of the classical mathematical objects it is used for instance in algebra geometry and topology We will briefly focus on other examples of non commutative rings and algebras which arise naturally in mathematics and in mathematical physics The exterior algebra or Grassmann algebra is widely used in differential geometry for example in geometric theory of integration Clifford algebras which include exterior algebras as a special case have applications in representation theory and in algebraic topology The Weyl algebra Le algebra of differential operators with polynomial coefficients often appears in the representation theory of Lie algebras In recent years modules over the Weyl algebra and sheaves of such modules became the foundation of the so called microlocal analysis The theory of operator algebras Le

Noncommutative Noetherian Rings John C. McConnell, James Christopher Robson, Lance W. Small, 2001 This is a reprinted edition of a work that was considered the definitive account in the subject area upon its initial publication by J Wiley Sons in 1987 It presents within a wider context a comprehensive account of noncommutative Noetherian rings The author covers the major developments from the 1950s stemming from Goldie's theorem and onward including applications to group rings enveloping algebras of Lie algebras PI rings differential operators and localization theory The book is not restricted to Noetherian rings but discusses wider classes of rings where the methods apply more generally In the current edition some errors were corrected a number of arguments have been expanded and the references were brought up to date This reprinted edition will continue to be a valuable and stimulating work for readers interested in ring theory and its applications to other areas of mathematics

Commutative Ring Theory Hideyuki Matsumura, 1989-05-25 This book explores commutative ring theory an important a foundation for algebraic geometry and complex analytical geometry

Encyclopaedia of Mathematics (set) Michiel Hazewinkel, 1994-02-28 The Encyclopaedia of Mathematics is the most up to date authoritative and comprehensive English language work of reference in mathematics which exists today With over 7 000 articles from A integral to Zygmund Class of Functions supplemented with a wealth of complementary information and an index volume providing thorough cross

referencing of entries of related interest the Encyclopaedia of Mathematics offers an immediate source of reference to mathematical definitions concepts explanations surveys examples terminology and methods The depth and breadth of content and the straightforward careful presentation of the information with the emphasis on accessibility makes the Encyclopaedia of Mathematics an immensely useful tool for all mathematicians and other scientists who use or are confronted by mathematics in their work The Encyclopaedia of Mathematics provides without doubt a reference source of mathematical knowledge which is unsurpassed in value and usefulness It can be highly recommended for use in libraries of universities research institutes colleges and even schools

Rings with Chain Conditions A. W. Chatters, C. R. Hajarnavis, 1980 **Encyclopaedia of Mathematics** Michiel Hazewinkel, 2013-12-01 This ENCYCLOPAEDIA OF MATHEMATICS aims to be a reference work for all parts of mathematics 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 engineers 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

Noetherian Rings and Their Applications Lance W. Small, 1987 T Stafford The Goldie rank of a module R Farkas Noetherian group rings An exercise in creating folklore and intuition C Jantzen Primitive ideals in the enveloping algebra of a semisimple Lie algebra J Enright Representation theory of semisimple Lie algebras E Bjork Filtered Noetherian rings Rentschler Primitive ideals in enveloping algebras *Lecture Notes in Pure and Applied Mathematics*, 1984 **Encyclopaedia of Mathematics** M. Hazewinkel, 2013-11-11 Markovian Queues O. P. Sharma, 1990 **Canadian Journal of Mathematics**, 1968

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