ONE SIDED SERIAL RINGS WITH CHAIN CONDITIONS



Serial Rings

Askar Tuganbaev

Serial Rings:

Serial Rings G. Puninski, 2012-12-06 The main theme in classical ring theory is the structure theory of rings of a particular kind For example no one text book in ring theory could miss the Wedderburn Artin theorem which says that a ring R is semisimple Artinian iffR is isomorphic to a finite direct sum of full matrix rings over skew fields This is an example of a finiteness condition which at least historically has dominated in ring theory Ifwe would like to consider a requirement of a lattice theoretical type other than being Artinian or Noetherian the most natural is uni seriality Here a module M is called uni serial if its lattice of submodules is a chain and a ring R is uni serial if both RR and RR are uni serial modules The class of uni serial rings includes commutative valuation rings and closed under homomorphic images But it is not closed under direct sums nor with respect to Morita equivalence a matrix ring over a uni serial ring is not uni serial There is a class of rings which is very close to uni serial but closed under the constructions just mentioned serial rings A ring R is called serial if RR and RR is a direct sum necessarily finite of uni serial modules Amongst others this class includes triangular matrix rings over a skew field Also if F is a finite field of characteristic p and G is a finite group with a cyclic normal p Sylow subgroup then the Algebras, Rings and Modules Michiel Hazewinkel, Nadiya Gubareni, V.V. Kirichenko, 2006-01-18 group ring FG is serial Accosiative rings and algebras are very interesting algebraic structures. In a strict sense the theory of algebras in particular noncommutative algebras originated from single example namely the quaternions created by Sir William R Hamilton in 1843 This was the rst example of a noncommutative numbers ystem During thenextfortyyearsmathematiciansintroduced 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 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 I 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 Semidistributive Modules and Rings A.A. Tuganbaev, 2012-12-06 A module M is called distributive if the lattice Algebra 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 of all 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 Rings and Things and a **Fine Array of Twentieth Century Associative Algebra** Carl Clifton Faith, 2004 This book surveys more than 125 years of aspects of associative algebras especially ring and module theory It is the first to probe so extensively such a wealth of historical development Moreover the author brings the reader up to date in particular through his report on the subject in the second half of the twentieth century Included in the book are certain categorical properties from theorems of Frobenius and Stickelberger on the primary decomposition of finite Abelian formulations of the latter by Krull Goldman and others Maschke's theorem on the representation theory of finite groups over a field and the fundamental theorems of Wedderburn on the structure of finite dimensional algebras Goldie and others A special feature of the book is the in depth study of rings with chain condition on annihilator ideals pioneered by Noether Artin and Jacobson and refined and extended by many later mathematicians Two of the author's prior works Algebra Rings Modules and Categories I and II Springer Verlag 1973 are devoted to the development of modern associative algebra and ring and module theory. Those bibliography of over 1 600 references and is exhaustively indexed In addition to the mathematical survey the author gives candid and descriptive impressions of the last half of the twentieth century in Part II Snapshots of fellow graduate students at the University of Kentucky and at Purdue Faith discusses his Fulbright Nato Postdoctoral at Heidelberg and at the Institute for Advanced Study IAS at Princeton his year as a visiting scholar at Berkeley and the many acquaintances he met there and in subsequent travels in India Europe and most recently Barcelona Comments on the first edition Researchers in algebra should find it both full references as to the origin and development of the theorem I know of no other work in print which does this as thoroughly and as broadly John O Neill University of Detroit at Mercy Part II Snapshots of Mathematicians of my age and younger will relish reading Snapshots James A Huckaba University of Missouri Columbia 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 *Non-Commutative Ring Theory* Surender K. Jain, Sergio R. Lopez-Permouth, 2006-11-14 The papers of this volume share as a common goal the structure and classi fication of noncommutative rings and their modules and deal with topics of current research including localization serial rings perfect endomorphism rings quantum groups Morita contexts generalizations of injectivity and Cartan matrices

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 Advances in Ring Theory S.K. Jain, Rizvi S. Tarig, 2012-12-06 II Ring Theory Carl Faith, 2012-12-06 **Foundations of Module and Ring Theory** Robert Wisbauer, 2018-05-11 This volume provides a comprehensive introduction to module theory and the related part of ring theory including original results as well as the most recent work It is a useful and stimulating study for those new to the subject as well as for researchers and serves as a reference volume Starting form a basic understanding of linear algebra the theory is presented and accompanied by complete proofs For a module M the smallest Grothendieck category containing it is denoted by o M and module theory is developed in this category Developing the techniques in o M is no more complicated than in full module categories and the higher generality yields significant advantages for example module theory may be developed for rings without units and also for non associative rings Numerous exercises are included in this volume to give further insight into the topics covered and to draw attention to related results in **Handbook of Algebra** ,2003-10-15 Handbook of Algebra Index of Trademarks Issued from the United the literature States Patent Office United States. Patent Office,1951 FPF Ring Theory Carl Faith, Stanley Page, 1984-04-26 This work includes all known theorems on the subject of noncommutative FPF rings Module Theory Alberto Facchini, 2012-02-05 This book presents topics in module theory and ring theory some such as Goldie dimension and semiperfect rings are now considered classical and others more specialized such as dual Goldie dimension semilocal endomorphism rings serial rings Hereditary Noetherian Prime Rings and Idealizers Lawrence S. Levy, James Christopher Robson, 2011 This and modules surveys material previously available only in the research literature It provides a re worked and simplified account with improved clarity fresh insights and many original results about finite length modules injective modules and projective modules It culminates in the authors surprisingly complete structure theorem for projective modules which involves two independent additive invariants genus and Steinitz class **Rings and Categories of Modules** Frank W. Anderson, Kent R. Fuller, 2012-12-06 This book is intended to provide a reasonably self contained account of a major portion of the general theory of rings and modules suitable as a text for introductory and more advanced graduate courses We assume the famil iarity with rings usually acquired in standard undergraduate algebra courses Our general approach is categorical rather than arithmetical The continuing theme of the text is the study of the relationship between the one sided ideal structure that a

ring may possess and the behavior of its categories of modules Following a brief outline of set theoretic and categorical foundations the text begins with the basic definitions and properties of rings modules and homomorphisms and ranges through comprehensive treatments of direct sums finiteness conditions the Wedderburn Artin Theorem the Jacobson radical the hom and tensor functions Morita equivalence and duality de composition theory of injective and projective modules and semi perfect and perfect rings In this second edition we have included a chapter containing many of the classical results on artinian rings that have hdped to form the foundation for much of the contemporary research on the representation theory of artinian rings and finite dimensional algebras Both to illustrate the text and to extend it we have included a substantial number of exercises covering a wide spectrum of difficulty There are of course many important areas of ring and module theory that the text does not touch upon Index of Trademarks Issued from the United States Patent and Trademark Office ,1950 Algebra I.B.S. Passi, 2012-12-06 The Indian National Science Academy has planned to bring out monographs on special topics with the aim of providing acce sible surveys reviews of topics of current research in various fields Prof S K Malik FNA Editor of Publications INSA asked me in October 1997 to edit a volume on algebra in this series I invited a number of algebraists several of them working in group rings and it is with great satisfaction and sincere thanks to the authors that I present here in Algebra Some Recent Advances the sixteen contributions received in response to my invitations I B S Passi On Abelian Difference Sets K r Arasu and Surinder K Sehgal 1 Introduction We review some existence and nonexistence results new and old on abelian difference sets Recent surveys on difference sets can be found in Arasu 1990 Jungnickel 1992a b Pott 1995 Jungnickel and Schmidt 1997 and Davis and Jedwab 1996 Standard references for difference sets are Baumert 1971 Beth et al 1998 and Lander 1983 This article presents a flavour of the subject by discussing some selected topics Difference sets are very important in combinatorial design theory and in communication engineering while designing sequences with good correlation properties Our extended bibliography covers a wide variety of papers written in the area of difference sets and related topics Semilocal Categories and Modules with Semilocal Endomorphism Rings Alberto Facchini, 2019-10-23 This book collects and coherently presents the research that has been undertaken since the author's previous book Module Theory 1998 In addition to some of the key results since 1995 it also discusses the development of much of the supporting material In the twenty years following the publication of the Camps Dicks theorem the work of Facchini Herbera Shamsuddin Puninski Prihoda and others has established the study of serial modules and modules with semilocal endomorphism rings as one of the promising directions for module theoretic research Providing readers with insights into the directions in which the research in this field is moving as well as a better understanding of how it interacts with other research areas the book appeals to undergraduates and graduate students as well as researchers interested in algebra

Serial Rings Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has be more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Serial Rings**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Serial Rings Introduction

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