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# GROUPS WITH PRESCRIBED QUOTIENT GROUPS AND ASSOCIATED MODULE THEORY

- L. Kurdachenko
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World Scientific

## **Groups With Prescribed Quotient Groups And Abociated Module Theory**

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#### **Groups With Prescribed Quotient Groups And Abociated Module Theory:**

Groups With Prescribed Quotient Groups And Associated Module Theory Leonid A Kurdachenko, Javier Otal, Igor Ya Subbotin, 2002-01-30 The influence of different gomomorphic images on the structure of a group is one of the most important and natural problems of group theory. The problem of describing a group with all its gomomorphic images known i e reconstructing the whole thing using its reflections seems especially natural and promising This theme has a history that is almost a half century long The authors of this book present well established results as well as newer contemporary achievements in this area from the common integral point of view This view is based on the implementation of module theory for solving group problems Evidently this approach requires investigation of some specific types of modules infinite simple modules and just infinite modules note that every infinite noetherian module has either an infinite simple factor module or a just infinite factor module This book will therefore be useful for group theorists as well as ring and module theorists Also the level style and presentation make the book easily accessible to graduate students **Rings Related to Stable Range Conditions** Huanyin Chen, 2011 This monograph is concerned with exchange rings in various conditions related to stable range Diagonal reduction of regular matrices and cleanness of square matrices are also discussed Readers will come across various topics cancellation of modules comparability of modules cleanness monoid theory matrix theory K theory topology amongst others This is a first ever book that contains many of these topics considered under stable range conditions It will be of great interest to researchers and graduate students involved in ring and module theories Groups St Andrews 2009 in Bath: Volume 1 C. M. Campbell, M. R. Ouick, E. F. Robertson, C. M. Roney-Dougal, G. C. Smith, G. Traustason, 2011-06-16 Groups St Andrews 2009 was held in the University of Bath in August 2009 and this first volume of a two volume book contains selected papers from the international conference Five main lecture courses were given at the conference and articles based on their lectures form a substantial part of the proceedings This volume contains the contributions by Gerhard Hiss RWTH Aachen and Volodymyr Nekrashevych Texas A M Apart from the main speakers refereed survey and research articles were contributed by other conference participants Arranged in alphabetical order these articles cover a wide spectrum of modern group theory The regular proceedings of Groups St Andrews conferences have provided snapshots of the state of research in group theory throughout the past 30 years Earlier volumes have had a major impact on the development of group theory and it is anticipated that this volume will be equally important **Artinian Modules over Group Rings** Leonid Kurdachenko, Javier Otal, Igor Ya Subbotin, 2006-12-22 This book highlights important developments on artinian modules over group rings of generalized nilpotent groups Along with traditional topics such as direct decompositions of artinian modules criteria of complementability for some important modules and criteria of semisimplicity of artinian modules it also focuses on recent advanced results on these matters 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 Matrix Partial Orders, Shorted Operators And Applications P Bhimasankaram, Saroj B Malik, Sujit Kumar Mitra, 2010-03-31 The present monograph on matrix partial orders the first on this topic makes a unique presentation of many partial orders on matrices that have fascinated mathematicians for their beauty and applied scientists for their wide ranging application potential Except for the L wner order the partial orders considered are relatively new and came into being in the late 1970s After a detailed introduction to generalized inverses and decompositions the three basic partial orders namely the minus the sharp and the star and the corresponding one sided orders are presented using various generalized inverses The authors then give a unified theory of all these partial orders as well as study the parallel sums and shorted matrices the latter being studied at great length Partial orders of modified matrices are a new addition Finally applications are given in statistics and electrical network theory Deceased Chinese Journal of Contemporary Mathematics Ischia Group Theory 2008 - Proceedings Of The Conference In Group Theory Mariagrazia Bianchi, Patrizia Longobardi, Mercede Maj, Carlo Maria Scoppola, 2009-07-30 The volume contains a collection of research articles by leading experts in group theory and reports of several accessible surveys of recent research in the area The compilation provide an overview of the diversity of themes and applications that interest today s group theorists The topics covered in this volume include character theory combinatorial group theory varieties of groups conjugacy classes profinite groups graphs connected with groups subgroup structure representation theory Ranks of Groups Martyn R. Dixon, Leonid A. Kurdachenko, Igor Ya Subbotin, 2017-08-07 A comprehensive guide to ranks and group theory Ranks of Groups features a logical straightforward presentation beginning with a succinct discussion of the standard ranks before moving on to specific aspects of ranks of groups Topics covered include section ranks groups of finite 0 rank minimax rank special rank groups of finite section p rank groups having finite section p rank for all primes p groups of finite bounded section rank groups whose abelian subgroups have finite rank groups whose abelian subgroups have bounded finite rank finitely generated groups having finite rank residual properties of groups of finite rank groups covered by normal subgroups of bounded finite rank and theorems of Schur and Baer This book presents fundamental concepts and notions related to the area of ranks in groups Class tested worldwide by highly qualified authors in the fields of abstract algebra and group theory this book focuses on critical concepts with the most interesting striking and central results In order to provide readers with the most useful techniques related to the various different ranks in a group the authors have carefully examined hundreds of current research articles on group theory authored by researchers around the world providing an up to date comprehensive treatment of the subject All

material has been thoroughly vetted and class tested by well known researchers who have worked in the area of rank conditions in groups Topical coverage reflects the most modern up to date research on ranks of groups Features a unified point of view on the most important results in ranks obtained using various methods so as to illustrate the role those ranks play within group theory Focuses on the tools and methods concerning ranks necessary to achieve significant progress in the study and clarification of the structure of groups Ranks of Groups The Tools Characteristics and Restrictions is an excellent textbook for graduate courses in mathematics featuring numerous exercises whose solutions are provided This book will be an indispensable resource for mathematicians and researchers specializing in group theory and abstract algebra MARTYN R DIXON PhD is Professor in the Department of Mathematics at the University of Alabama LEONID A KURDACHENKO PhD DrS is Distinguished Professor and Chair of the Department of Algebra at the University of Dnepropetrovsk Ukraine IGOR YA SUBBOTIN PhD is Professor in the Department of Mathematics and Natural Sciences at National University in Los Angeles California Algebra and Number Theory Martyn R. Dixon, Leonid A. Kurdachenko, Igor Ya Subbotin, 2010-09-27 Explore the main algebraic structures and number systems that play a central role across the field of mathematics Algebra and number theory are two powerful branches of modern mathematics at the forefront of current mathematical research and each plays an increasingly significant role in different branches of mathematics from geometry and topology to computing and communications Based on the authors extensive experience within the field Algebra and Number Theory has an innovative approach that integrates three disciplines linear algebra abstract algebra and number theory into one comprehensive and fluid presentation facilitating a deeper understanding of the topic and improving readers retention of the main concepts The book begins with an introduction to the elements of set theory Next the authors discuss matrices determinants and elements of field theory including preliminary information related to integers and complex numbers Subsequent chapters explore key ideas relating to linear algebra such as vector spaces linear mapping and bilinear forms The book explores the development of the main ideas of algebraic structures and concludes with applications of algebraic ideas to number theory Interesting applications are provided throughout to demonstrate the relevance of the discussed concepts In addition chapter exercises allow readers to test their comprehension of the presented material Algebra and Number Theory is an excellent book for courses on linear algebra abstract algebra and number theory at the upper undergraduate level It is also a valuable reference for researchers working in different fields of mathematics computer science and engineering as well as for individuals preparing for a career in mathematics education Algebra Colloquium Mathematical Reviews ,2008 .2003 **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 **Encyclopaedia of Mathematics** M. Combinatorial Group Theory Wilhelm Magnus, Abraham Karrass, Donald Solitar, 2004-01-01 Hazewinkel, 2013-11-11 This seminal much cited account begins with a fairly elementary exposition of basic concepts and a discussion of factor groups and subgroups The topics of Nielsen transformations free and amalgamated products and commutator calculus receive detailed treatment The concluding chapter surveys word conjugacy and related problems adjunction and embedding problems and more Second revised 1976 edition **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 subdivi sion 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 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

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Representation Theory of Finite Groups: a Guidebook David A. Craven, 2019-08-30 This book provides an accessible introduction to the state of the art of representation theory of finite groups Starting from a basic level that is summarized at the start the book proceeds to cover topics of current research interest including open problems and conjectures The central themes of the book are block theory and module theory of group representations which are comprehensively surveyed with a full bibliography The individual chapters cover a range of topics within the subject from blocks with cyclic defect groups to representations of symmetric groups Assuming only modest background knowledge at the level of a first graduate course in algebra this guidebook intended for students taking first steps in the field will also provide a reference for more experienced researchers Although no proofs are included end of chapter exercises make it suitable for student seminars Recent Advances in Representation Theory, Quantum Groups, Algebraic Geometry, and Related Topics Pramod M. Achar, Dijana Jakelić, Kailash C. Misra, Milen Yakimov, 2014-08-27 This volume contains the proceedings of two AMS Special Sessions Geometric and Algebraic Aspects of Representation Theory and Quantum Groups and Noncommutative Algebraic Geometry held October 13 14 2012 at Tulane University New Orleans Louisiana Included in this volume are original research and some survey articles on various aspects of representations of algebras including Kac Moody algebras Lie superalgebras quantum groups toroidal algebras Leibniz algebras and their connections with other areas of mathematics and mathematical physics

Handbook of Mathematics Vialar Thierry, 2023-08-22 The book revised consists of XI Parts and 28 Chapters covering all areas of mathematics It is a tool for students scientists engineers students of many disciplines teachers professionals writers and also for a general reader with an interest in mathematics and in science It provides a wide range of mathematical concepts definitions propositions theorems proofs examples and numerous illustrations The difficulty level can vary depending on chapters and sustained attention will be required for some The structure and list of Parts are quite classical I Foundations of Mathematics II Algebra III Number Theory IV Geometry V Analytic Geometry VI Topology VII Algebraic Topology VIII Analysis IX Category Theory X Probability and Statistics XI Applied Mathematics Appendices provide useful lists of symbols and tables for ready reference Extensive cross references allow readers to find related terms concepts and items by page number heading and objet such as theorem definition example etc The publisher's hope is that this book slightly revised and in a convenient format will serve the needs of readers be it for study teaching exploration work or research

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