Exercises in Abelian Group Theory

Grigore Călugăreanu,
Simion Breaz, Ciprian Modoi,
Cosmin Pelea and
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Nathan Carter

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  Exercises in Abelian Group Theory D. Valcan,C. Pelea,C. Modoi,S. Breaz,Grigore Calugareanu,2013-06-29 This book in some sense began to be written by the first author in 1983 when optional lectures on Abelian groups were held at the Fac ulty of Mathematics and Computer Science Babes Bolyai University in Cluj Napoca Romania From 1992 these lectures were extended to a twosemester electivecourse on abelian groups for undergraduate stu dents followed by a twosemester course on the same topic for graduate students in Algebra All the other authors attended these two years of lectures and are now Assistants to the Chair of Algebra of this Fac ulty The first draft of this collection including only exercises solved by students as home works the last ten years had 160pages We felt that there is a need for a book such as this one because it would provide a nice bridge between introductory Abelian Group Theory and more advanced research problems The book InfiniteAbelianGroups published by LaszloFuchsin two volumes 1970 and 1973 willwithout doubt last as the most important guide for abelian group theorists Many exercises are selected from this source but there are plenty of other bibliographical items see the Bibliography which were used in order to make up this collection For some of the problems stated recent developments are also given Nevertheless there are plenty of elementary results the so called folklore in Abelian Group Theory whichdo not appear in any written material It is also one purpose of this book to complete this gap   Exercises in Abelian Group Theory D. Valcan,Cosmin Pelea,George Ciprian Modoi,Simion Breaz,Grigore Calugareanu,2013-01-11 This book in some sense began to be written by the first author in 1983 when optional lectures on Abelian groups were held at the Fac ulty of Mathematics and Computer Science Babes Bolyai University in Cluj Napoca Romania From 1992 these lectures were extended to a twosemester electivecourse on abelian groups for undergraduate stu dents followed by a twosemester course on the same topic for graduate students in Algebra All the other authors attended these two years of lectures and are now Assistants to the Chair of Algebra of this Fac ulty The first draft of this collection including only exercises solved by students as home works the last ten years had 160pages We felt that there is a need for a book such as this one because it would provide a nice bridge between introductory Abelian Group Theory and more advanced research problems The book InfiniteAbelianGroups published by LaszloFuchsin two volumes 1970 and 1973 willwithout doubt last as the most important guide for abelian group theorists Many exercises are selected from this source but there are plenty of other bibliographical items see the Bibliography which were used in order to make up this collection For some of the problems stated recent developments are also given Nevertheless there are plenty of elementary results the so called folklore in Abelian Group Theory whichdo not appear in any written material It is also one purpose of this book to complete this gap   **Exercises in Group Theory** E. Lyapin,2012-12-06 The present book is a translation of E S Lyapin A Va Aizenshtat and M M Lesokhin s Uprazhneniya po teorii grupp I have departed somewhat from the original text in the following respects I I have used Roman letters to indicate sets and their elements and Greek letters to indicate mappings of sets The Russian text frequently adopts

the opposite usage 2 I have changed some of the terminology slightly in order to conform with present English usage e g inverses instead of regular conjugates 3 I have corrected a number of misprints which appeared in the original in addition to those corrections supplied by Professor Lesokhin 4 The bibliography has been adapted for readers of English 5 An index of all defined terms has been compiled by Anita Zitarelli 6 I have included a multiplication table for the symmetric group on four elements which is a frequent source of examples andcounterex Imples both in this book and in all of group theory I would like to take this opportunity to thank the authors for their permission to publish this translation Special thanks are extended to Professor Lesokhin for his errata list and for writing the Foreword to the English Edition I am particularly indebted to Leo F Boron who read the entire manuscript and offered many valuable comments Finally to my unerring typists Sandra Rossman and Anita Zitarelli I am sincerely grateful   *Galois Theory Through Exercises* Juliusz Brzeziński,2018-03-21 This textbook offers a unique introduction to classical Galois theory through many concrete examples and exercises of varying difficulty including computer assisted exercises In addition to covering standard material the book explores topics related to classical problems such as Galois theorem on solvable groups of polynomial equations of prime degrees Nagell s proof of non solvability by radicals of quintic equations Tschirnhausen s transformations lunes of Hippocrates and Galois resolvents Topics related to open conjectures are also discussed including exercises related to the inverse Galois problem and cyclotomic fields The author presents proofs of theorems historical comments and useful references alongside the exercises providing readers with a well rounded introduction to the subject and a gateway to further reading A valuable reference and a rich source of exercises with sample solutions this book will be useful to both students and lecturers Its original concept makes it particularly suitable for self study   **Visual Group Theory** Nathan Carter,2021-06-08 Recipient of the Mathematical Association of America s Beckenbach Book Prize in 2012 Group theory is the branch of mathematics that studies symmetry found in crystals art architecture music and many other contexts but its beauty is lost on students when it is taught in a technical style that is difficult to understand Visual Group Theory assumes only a high school mathematics background and covers a typical undergraduate course in group theory from a thoroughly visual perspective The more than 300 illustrations in Visual Group Theory bring groups subgroups homomorphisms products and quotients into clear view Every topic and theorem is accompanied with a visual demonstration of its meaning and import from the basics of groups and subgroups through advanced structural concepts such as semidirect products and Sylow theory   *Exercises in Classical Ring Theory* T.Y. Lam,2013-06-29 Based in large part on the comprehensive First Course in Ring Theory by the same author this book provides a comprehensive set of problems and solutions in ring theory that will serve not only as a teaching aid to instructors using that book but also for students who will see how ring theory theorems are applied to solving ring theoretic problems and how good proofs are written The author demonstrates that problem solving is a lively process in Comments following many solutions he discusses what happens if a hypothesis is removed whether the exercise can be further generalized what

would be a concrete example for the exercise and so forth The book is thus much more than a solution manual

Structural Additive Theory David J. Grynkiewicz,2013-05-30 Nestled between number theory combinatorics algebra and analysis lies a rapidly developing subject in mathematics variously known as additive combinatorics additive number theory additive group theory and combinatorial number theory Its main objects of study are not abelian groups themselves but rather the additive structure of subsets and subsequences of an abelian group i e sumsets and subsequence sums This text is a hybrid of a research monograph and an introductory graduate textbook With few exceptions all results presented are self contained written in great detail and only reliant upon material covered in an advanced undergraduate curriculum supplemented with some additional Algebra rendering this book usable as an entry level text However it will perhaps be of even more interest to researchers already in the field The majority of material is not found in book form and includes many new results as well Even classical results when included are given in greater generality or using new proof variations The text has a particular focus on results of a more exact and precise nature results with strong hypotheses and yet stronger conclusions and on fundamental aspects of the theory Also included are intricate results often neglected in other texts owing to their complexity Highlights include an extensive treatment of Freiman Homomorphisms and the Universal Ambient Group of sumsets A B an entire chapter devoted to Hamidoune s Isoperimetric Method a novel generalization allowing infinite summands in finite sumset questions weighted zero sum problems treated in the general context of viewing homomorphisms as weights and simplified proofs of the Kemperman Structure Theorem and the Partition Theorem for setpartitions

Theory and Applications of Finite Groups George Abram Miller,Hans Frederick Blichfeldt,Hans Frederik Blichfeldt,Leonard Eugene Dickson,1916 **A Gentle Introduction to Group Theory** Bana Al Subaiei,Muneerah Al Nuwairan,2023-05-31 The book is intended to serve as an introductory course in group theory geared towards second year university students It aims to provide them with the background needed to pursue more advanced courses in algebra and to provide a rich source of examples and exercises Studying group theory began in the late eighteenth century and is still gaining importance due to its applications in physics chemistry geometry and many fields in mathematics The text is broadly divided into three parts The first part establishes the prerequisite knowledge required to study group theory This includes topics in set theory geometry and number theory Each of the chapters ends with solved and unsolved exercises relating to the topic By doing this the authors hope to fill the gaps between all the branches in mathematics that are linked to group theory The second part is the core of the book which discusses topics on semigroups groups symmetric groups subgroups homomorphisms isomorphism and Abelian groups The last part of the book introduces SAGE a mathematical software that is used to solve group theory problems Here most of the important commands in SAGE are explained and many examples and exercises are provided *Abstract Algebra with Applications* Karlheinz Spindler,1993-10-18 A comprehensive presentation of abstract algebra and an in depth treatment of the applications of algebraic techniques and the relationship of algebra to

other disciplines such as number theory combinatorics geometry topology differential equations and Markov chains

Group Theory W. R. Scott,2012-05-23 Here is clear well organized coverage of the most standard theorems including isomorphism theorems transformations and subgroups direct sums abelian groups and more This undergraduate level text features more than 500 exercises **A Course in the Theory of Groups** Derek J.S. Robinson,2012-12-06 A Course in the Theory of Groups is a comprehensive introduction to the theory of groups finite and infinite commutative and non commutative Presupposing only a basic knowledge of modern algebra it introduces the reader to the different branches of group theory and to its principal accomplishments While stressing the unity of group theory the book also draws attention to connections with other areas of algebra such as ring theory and homological algebra This new edition has been updated at various points some proofs have been improved and lastly about thirty additional exercises are included There are three main additions to the book In the chapter on group extensions an exposition of Schreier s concrete approach via factor sets is given before the introduction of covering groups This seems to be desirable on pedagogical grounds Then S Thomas s elegant proof of the automorphism tower theorem is included in the section on complete groups Finally an elementary counterexample to the Burnside problem due to N D Gupta has been added in the chapter on finiteness properties *A First Course in Group Theory* Cyril F. Gardiner,2012-12-06 One of the difficulties in an introductory book is to communicate a sense of purpose Only too easily to the beginner does the book become a sequence of definitions concepts and results which seem little more than curiousities leading nowhere in particular In this book I have tried to overcome this problem by making my central aim the determination of all possible groups of orders 1 to 15 together with some study of their structure By the time this aim is realised towards the end of the book the reader should have acquired the basic ideas and methods of group theory To make the book more useful to users of mathematics in particular students of physics and chemistry I have included some applications of permutation groups and a discussion of finite point groups The latter are the simplest examples of groups of partic ular interest to scientists They occur as symmetry groups of physical configurations such as molecules Many ideas are discussed mainly in the exercises and the solutions at the end of the book However such ideas are used rarely in the body of the book When they are suitable references are given Other exercises test and reinfol ce the text in the usual way A final chapter gives some idea of the directions in which the interested reader may go after working through this book References to help in this are listed after the outline solutions **A Course in Group Theory** J. F. Humphreys,1996 This book is an excellent and self contained introduction to the theory of groups covering all topics likely to be encountered in undergraduate courses It aims to stimulate and encourage undergraduates to find out more about the subject The book takes as its theme the various fundamental classification theorems in finite group theory anf the text is further explained in numderous examples and exercises and summaries at the end of each chapter **Exercises in Modules and Rings** T.Y. Lam,2006-12-15 This volume offers a compendium of exercises of varying degree of difficulty in the theory of modules and

rings It is the companion volume to GTM 189 All exercises are solved in full detail Each section begins with an introduction giving the general background and the theoretical basis for the problems that follow **Exercises in Basic Ring Theory** Grigore Calugareanu,P. Hamburg,2013-03-09 Each undergraduate course of algebra begins with basic notions and results concerning groups rings modules and linear algebra That is it begins with simple notions and simple results Our intention was to provide a collection of exercises which cover only the easy part of ring theory what we have named the Basics of Ring Theory This seems to be the part each student or beginner in ring theory or even algebra should know but surely trying to solve as many of these exercises as possible independently As difficult or impossible as this may seem we have made every effort to avoid modules lattices and field extensions in this collection and to remain in the ring area as much as possible A brief look at the bibliography obviously shows that we don t claim much originality one could name this the folklore of ring theory for the statements of the exercises we have chosen but this was a difficult task indeed the 28 titles contain approximatively 15 000 problems and our collection contains only 346 The real value of our book is the part which contains all the solutions of these exercises We have tried to draw up these solutions as detailed as possible so that each beginner can progress without skilled help The book is divided in two parts each consisting of seventeen chapters the first part containing the exercises and the second part the solutions **Visual Group Theory** Stephan Rosebrock,2024-07-04 This textbook provides an introduction to group theory starting from the basics relying on geometry to elucidate its various aspects Groups naturally manifest as symmetries of geometric shapes such as reflections and rotations The book adopts this perspective to provide a straightforward descriptive explanation supported by examples and exercises in GAP an open source computer algebra system It covers all of the key concepts of group theory including homomorphisms group operations presentations products of groups and finite abelian and solvable groups The topics include cyclic and symmetric groups dihedral orthogonal and hyperbolic groups as well as the significant notion of Cayley graphs Self contained and requiring little beyond high school mathematics this book is aimed at undergraduate courses and features numerous exercises It will also appeal to anyone interested in the geometric approach to group theory Ever-Evolving Groups Alexander A. Ivanov,2025-07-02 This book presents an original approach to the theory of finite groups placing finite sporadic groups on an equal footing It provides a nearly comprehensive overview of developments in the study of sporadic groups since the classification of finite simple groups was completed Authored by one of the key contributors to these developments a major theme of the book is the growing role that geometry has played in this story in the form of diagram geometries amalgams graph theory and pushing up The chapters interweave various ideas and techniques applicable to all sporadic groups Many of the results presented several due to the author and collaborators appear in book form for the first time While much of the book describes developments from recent decades it also includes significant new material notably on the enigmatic Thompson group and the Monster The final chapter explores connections to Majorana algebras and discusses some remarkable

conjectures A valuable addition to the literature on finite simple groups this book will appeal to a wide audience from advanced graduate students to researchers in group theory combinatorics finite geometry coding theory graph theory and other mathematical fields that use group theory to study symmetries and structures **The Structure of Compact Groups** Karl H. Hofmann,Sidney A. Morris,2013-08-29 The subject matter of compact groups is frequently cited in fields like algebra topology functional analysis and theoretical physics This book serves the dual purpose of providing a textbook on it for upper level graduate courses or seminars and of serving as a source book for research specialists who need to apply the structure and representation theory of compact groups After a gentle introduction to compact groups and their representation theory the book presents self contained courses on linear Lie groups on compact Lie groups and on locally compact abelian groups Separate appended chapters contain the material for courses on abelian groups and on category theory However the thrust of the book points in the direction of the structure theory of not necessarily finite dimensional nor necessarily commutative compact groups unfettered by weight restrictions or dimensional bounds In the process it utilizes infinite dimensional Lie algebras and the exponential function of arbitrary compact groups The first edition of 1998 and the second edition of 2006 were well received by reviewers and have been frequently quoted in the areas of instruction and research For the present new edition the text has been cleaned of typographical flaws and the content has been conceptually sharpened in some places and polished and improved in others New material has been added to various sections taking into account the progress of research on compact groups both by the authors and other writers Motivation was provided among other things by questions about the structure of compact groups put to the authors by readers through the years following the earlier editions Accordingly the authors wished to clarify some aspects of the book which they felt needed improvement The list of references has increased as the authors included recent publications pertinent to the content of the book **Groups, Rings And Galois Theory (2nd Edition)** Victor P Snaith,2003-09-29 This book is ideally suited for a two term undergraduate algebra course culminating in a discussion on Galois theory It provides an introduction to group theory and ring theory en route In addition there is a chapter on groups including applications to error correcting codes and to solving Rubik s cube The concise style of the book will facilitate student instructor discussion as will the selection of exercises with various levels of difficulty For the second edition two chapters on modules over principal ideal domains and Dedekind domains have been added which are suitable for an advanced undergraduate reading course or a first year graduate course

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