

Combinatorial Group Theory A Topological Approach Paperback

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A Gentle Introduction to Group Theory
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Group Theory and Physics
A First Course in Group Theory
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Combinatorial and Geometric Group Theory, Edinburgh 1993
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fundamentals of group theory provides a comprehensive account of the basic theory of groups both classic and unique topics in the field are covered such as an historical look at how galois viewed groups a discussion of commutator and sylow subgroups and a presentation of birkhoff s theorem written in a clear and accessible style the work presents a solid introduction for students wishing to learn more about this widely applicable subject area this book will be suitable for graduate courses in group theory and abstract algebra and will also have appeal to advanced undergraduates in addition it will serve as a valuable resource for those pursuing independent study group

theory is a timely and fundamental addition to literature in the study of groups

the theory of groups is simultaneously a branch of abstract algebra and the study of symmetry designed for readers approaching the subject for the first time this book reviews all the essentials it recaps the basic definitions and results including lagranges theorem the isomorphism theorems and group actions later chapters include material on chain conditions and finiteness conditions free groups and the theory of presentations in addition a novel chapter of entertainments demonstrates an assortment of results that can be achieved with the theoretical machinery

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

this book quickly introduces beginners to general group theory and then focuses on three main themes finite group theory including sporadic groups combinatorial and geometric group theory including the bass serre theory of groups acting on trees the theory of train tracks by bestvina and handel for automorphisms of free groups with its many examples exercises and full solutions to selected exercises this text provides a gentle introduction that is ideal for self study and an excellent preparation for applications a distinguished feature of the presentation is that algebraic and geometric techniques are balanced the beautiful theory of train tracks is illustrated by two nontrivial examples presupposing only a basic knowledge of algebra the book is addressed to anyone interested in group theory from advanced undergraduate and graduate students to specialists

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

this textbook based on courses taught at harvard university is an introduction to group theory and its application to physics the physical applications are considered as the mathematical theory is developed so that the presentation is unusually cohesive and well motivated many modern topics are dealt with and there is much discussion of the group su n and its representations this is of great significance in elementary particle physics applications to solid state physics are also considered this stimulating account will prove to be an essential resource for senior undergraduate students and their teachers

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 curiosities 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 particular 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 reinforce 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

keine ausführliche beschreibung für group theory verfügbar

this book group theory has been written for the students of b a b sc students this book is also helpful to the candidate appearing in various competitions like pre engineering i a s p c s etc the book contains groups homomorphism and isomorphism subgroups of a group permutation and normal subgroups the proofs of various theorems and examples have been given minute deals each chapter of this book contains complete theory and fairly large number of solved examples contents groups homomorphism and isomorphism subgroups of a group permutation normal subgroups

a thorough introduction to group theory this highly problem oriented book goes deeply into the subject to provide a fuller understanding than available anywhere else the book aims at not only teaching the material but also helping to develop the skills needed by a researcher

and teacher possession of which will be highly advantageous in these very competitive times particularly for those at the early insecure stages of their careers and it is organized and written to serve as a reference to provide a quick introduction giving the essence and vocabulary useful for those who need only some slight knowledge those just learning as well as researchers and especially for the latter it provides a grasp and often material and perspective not otherwise available

this textbook provides a readable account of the examples and fundamental results of groups from a theoretical and geometrical point of view topics on important examples of groups like cyclic groups permutation groups group of arithmetical functions matrix groups and linear groups lagrange s theorem normal subgroups factor groups derived subgroup homomorphism isomorphism and automorphism of groups have been discussed in depth covering all major topics this book is targeted to undergraduate students of mathematics with no prerequisite knowledge of the discussed topics each section ends with a set of worked out problems and supplementary exercises to challenge the knowledge and ability of the reader

the present edition differs from the first in several places in particular our treatment of polycyclic and locally polycyclic groups the most natural generalizations of the classical concept of a finite soluble group has been expanded we thank ju m gorkakov v a curkin and v p sunkov for many useful remarks the authors novosibirsk akademgorodok january 14 1976 v preface to the first edition this book consists of notes from lectures given by the authors at novosibirsk university from 1968 to 1970 our intention was to set forth just the fundamentals of group theory avoiding excessive detail and skirting the quagmire of generalizations however a few generalizations are nonetheless considered see the last sections of chapters 6 and 7 we hope that the student desiring to work in the theory of groups having become acquainted with its fundamentals from these notes will quickly be able to proceed to the specialist literature on his chosen topic we have striven not to cross the boundary between abstract and scholastic group theory elucidating difficult concepts by means of simple examples wherever possible four types of examples accompany the theory numbers under addition numbers under multiplication permutations and matrices

this volume celebrates the major impact on modern group theory made by philip hall the survey articles were commissioned to provide reasonably self contained up to date and forward looking accounts of finite and infinite group theory mathematicians working on group theory and ring theory will find this volume interesting and useful and the material is accessible to students specializing in algebra this book was prepared for philip hall s 80th birthday but is now published after his death as a tribute to his genius from the preface this book was to have been an eightieth birthday present for philip hall in the summer of 1980 the council of the london mathematical

society asked us to edit a volume to mark hall s 80th birthday on the eleventh of april 1984 we decided to produce a book in two parts the first to consist of commissioned survey articles and the second of submitted research papers because we intended to invite research articles by advertisement we had to tell hall something of our plans this we did at a pub lunch outside cambridge in may 1981 at the same time we asked him if he would agree to take part in a birthday celebration in his honour which had been proposed by the society characteristically he said that he would prefer no public festivity but he liked the idea of a book especially the surveys our idea was that each survey would give a reasonably self contained up to date and forward looking account of an area in which hall had made important contributions in view of hall s considerable impact on modern group theory we hoped that the essays would together form a fairly coherent picture of the subject so as to avoid too much overlap we suggested to each author the area we should like him to cover but only in broad terms the choice of material within the suggested area was left entirely to him it was inevitable perhaps that gaps would remain when hall died on 30th december 1982 we felt that the second half of the planned book was no longer appropriate but that the essays should still be published we offer them here not as a memorial volume since they were largely written while philip hall was alive and well but as a tribute to his genius

the icms workshop on geometric and combinatorial methods in group theory held at heriot watt university in 1993 brought together some of the leading research workers in the subject some of the survey articles and contributed papers presented at the meeting are collected in this volume the former cover a number of areas of current interest and include papers by s m gersten r i grigorchuk p h kropholler a lubotzky a a razborov and e zelmanov the contributed articles all refereed range over a wide number of topics in combinatorial and geometric group theory and related topics the volume represents a summary of the state of knowledge of the field and as such will be indispensable to all research workers in the area

perhaps the first truly famous book devoted primarily to finite groups was burnside s book from the time of its second edition in 1911 until the appearance of hall s book there were few books of similar stature hall s book is still considered to be a classic source for fundamental results on the representation theory for finite groups the burnside problem extensions and cohomology of groups p groups and much more for the student who has already had an introduction to group theory there is much treasure to be found in hall s theory of groups from the preface to the second edition 1976 the present volume is intended to serve a dual purpose the first ten chapters are meant to be the basis for a course in group theory and exercises have been included at the end of each of these chapters the last ten chapters are meant to be useful as optional material in a course or as reference material when used as a text the book is intended for students who have had an introductory course in modern algebra comparable to a course taught from birkhoff and mac lane s a survey of

modern algebra i have tried to make this book as self contained as possible but where background material is needed references have been given chiefly to birkhoff and mac lane

a remarkably intelligible survey well organized well written and very clear throughout mathematical reviews this excellent text long considered one of the best written most skillful expositions of group theory and its physical applications is directed primarily to advanced undergraduate and graduate students in physics especially quantum physics no knowledge of group theory is assumed but the reader is expected to be familiar with quantum mechanics and while much of the book concerns theory readers will nevertheless find a large number of physical applications in the fields of crystallography molecular theory and atomic and nuclear physics the first seven chapters of the book are concerned with finite groups focusing on the central role of the symmetric group this section concludes with a chapter dealing with the problem of determining group characters as it discusses young tableaux yamanouchi symbols and the method of hund the remaining five chapters discuss continuous groups particularly lie groups with the final chapter devoted to the ray representation of lie groups the author professor emeritus of physics at the university of minnesota has included a generous selection of problems they are inserted throughout the text at the place where they naturally arise making the book ideal for self study as well as for classroom assignment 77 illustrations a very welcome addition to the literature i would warmly recommend the book to all serious students of group theory as applied to physics contemporary physics index bibliography problems tables

symmetries coupled with the mathematical concept of group theory are an essential conceptual backbone in the formulation of quantum field theories capable of describing the world of elementary particles this primer is an introduction to and survey of the underlying concepts and structures needed in order to understand and handle these powerful tools specifically in part i of the book the symmetries and related group theoretical structures of the minkowskian space time manifold are analyzed while part ii examines the internal symmetries and their related unitary groups where the interactions between fundamental particles are encoded as we know them from the present standard model of particle physics this book based on several courses given by the authors addresses advanced graduate students and non specialist researchers wishing to enter active research in the field and having a working knowledge of classical field theory and relativistic quantum mechanics numerous end of chapter problems and their solutions will facilitate the use of this book as self study guide or as course book for topical lectures

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

this book offers a new algebraic approach to set theory the authors introduce a particular kind of algebra the zermelo fraenkel algebras which arise from the familiar axioms of zermelo fraenkel set theory furthermore the authors explicitly construct these algebras using the theory of bisimulations their approach is completely constructive and contains both intuitionistic set theory and topos theory in particular it provides a uniform description of various constructions of the cumulative hierarchy of sets in forcing models sheaf models and realizability models graduate students and researchers in mathematical logic category theory and computer science should find this book of great interest and it should be accessible to anyone with a background in categorical logic

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