

GRADUATE STUDIES
IN MATHEMATICS 176

Ordered Groups and Topology

Adam Clay
Dale Rolfsen



American Mathematical Society

Ordered Groups

**Valerii Matveevich Kopytov, V.M.
Kopytov, Nikolai Yakovlevich
Medvedev**

Ordered Groups:

Partially Ordered Groups Andrew Martin William Glass,1999 The author's style of writing is very lucid and the material presented is self contained It is an excellent reference text for a graduate course in this area as well as a source of material for individual reading Bulletin of London Mathematical Society

Right-Ordered Groups Valerii Matveevich Kopytov,V.M. Kopytov,Nikolai Yakovlevich Medvedev,1996-04-30 The notion of right ordered groups is fundamental in theories of I groups ordered groups torsion free groups and the theory of zero divisors free rings as well as in theoretical physics Right Ordered Groups is the first book to provide a systematic presentation of right ordered group theory describing all known and new results in the field The volume addresses topics such as right ordered groups and order permutation groups the system of convex subgroups of a right ordered group and free products of right ordered groups

Lattice-Ordered Groups A.M. Glass,W.C. Holland,2012-12-06 A lattice ordered group is a mathematical structure combining a partial order lattice structure and a group structure on a set in a compatible way Thus it is a composite structure or a set carrying two or more simple structures in a compatible way The field of lattice ordered groups turn up on a wide range of mathematical fields ranging from functional analysis to universal algebra These papers address various aspects of the field with wide applicability for interested researchers

The Theory of Lattice-Ordered Groups V.M. Kopytov,N.Ya. Medvedev,2013-03-09 A partially ordered group is an algebraic object having the structure of a group and the structure of a partially ordered set which are connected in some natural way These connections were established in the period between the end of 19th and beginning of 20th century It was realized that ordered algebraic systems occur in various branches of mathematics bound up with its fundamentals For example the classification of infinitesimals resulted in discovery of non archimedean ordered algebraic systems the formalization of the notion of real number led to the definition of ordered groups and ordered fields the construction of non archimedean geometries brought about the investigation of non archimedean ordered groups and fields The theory of partially ordered groups was developed by R Dedekind a Holder D Gilbert B Neumann A I Malcev P Hall G Birkhoff

These connections between partial order and group operations allow us to investigate the properties of partially ordered groups For example partially ordered groups with interpolation property were introduced in F Riesz's fundamental paper 1 as a key to his investigations of partially ordered real vector spaces and the study of ordered vector spaces with interpolation properties were continued by many functional analysts since The deepest and most developed part of the theory of partially ordered groups is the theory of lattice ordered groups In the 40s following the publications of the works by G Birkhoff H Nakano and P

Lattice Ordered Groups Paul F. Conrad,1970 **Ordered Groups and Infinite Permutation Groups** W.C. Holland,2013-12-01 The subjects of ordered groups and of infinite permutation groups have long enjoyed a symbiotic relationship Although the two subjects come from very different sources they have in certain ways come together and each has derived considerable benefit from the other My own personal contact with this interaction began in 1961 I had done Ph D

work on sequence convergence in totally ordered groups under the direction of Paul Conrad. In the process I had encountered pseudo convergent sequences in an ordered group G which are like Cauchy sequences except that the differences between terms of large index approach not 0 but a convex subgroup G of G . If G is normal then such sequences are conveniently described as Cauchy sequences in the quotient ordered group G/G . If G is not normal of course G/G has no group structure though it is still a totally ordered set. The best that can be said is that the elements of G permute G/G in an order preserving fashion. In independent investigations around that time both P. Conrad and P. Cohn had showed that a group admits a total right ordering if and only if the group is a group of automorphisms of a totally ordered set. In a right ordered group the order is required to be preserved by all right translations unlike a two sided ordered group where both right and left translations must preserve the order.

Ordered Groups and Topology Adam Clay, Dale Rolfsen, 2016-11-16 This book deals with the connections between topology and ordered groups. It begins with a self-contained introduction to orderable groups and from there explores the interactions between orderability and objects in low dimensional topology such as knot theory, braid groups and 3-manifolds as well as groups of homeomorphisms and other topological structures. The book also addresses recent applications of orderability in the studies of codimension one foliations and Heegaard Floer homology. The use of topological methods in proving algebraic results is another feature of the book. The book was written to serve both as a textbook for graduate students containing many exercises and as a reference for researchers in topology, algebra and dynamical systems. A basic background in group theory and topology is the only prerequisite for the reader.

Ordered Groups and Infinite Permutation Groups W.C. Holland, 1996 The separate areas of Ordered Groups and Infinite Permutation Groups began to converge in significant ways about thirty years ago. Since then the connection has steadily grown so that now permutation groups are essential to many who work in ordered groups. Ordered groups are of some interest to most of those who work in infinite permutation groups and there are a number of mathematicians whose main work is exactly in ordered permutation groups, the combination of the two. This book represents the happy confluence of the two subjects running the spectrum from purely infinite permutation groups through ordered permutation groups to purely ordered groups. Experts in various aspects of these subjects have each contributed a chapter. The articles are surveys of recent and past work in the area and they include extensive bibliographies. Topics include lattice ordered groups, ordered permutation groups, Jordan groups, reconstruction problems, groups with few orbits, the separation theorem and automorphisms of symmetric groups. This book is an essential reference for anyone working in ordered groups or infinite permutation groups.

Lattice-Ordered Groups M.E. Anderson, T.H. Feil, 2012-12-06 The study of groups equipped with a compatible lattice order lattice ordered groups or \mathbf{I} groups has arisen in a number of different contexts. Examples of this include the study of ideals and divisibility dating back to the work of Dedekind and continued by Krull, the pioneering work of Hahn on totally ordered abelian groups and the work of Kantorovich and other analysts on partially ordered function spaces. After the Second World

War the theory of lattice ordered groups became a subject of study in its own right following the publication of fundamental papers by Birkhoff Nakano and Lorenzen The theory blossomed under the leadership of Paul Conrad whose important papers in the 1960s provided the tools for describing the structure for many classes of I groups in terms of their convex I subgroups A particularly significant success of this approach was the generalization of Hahn's embedding theorem to the case of abelian lattice ordered groups work done with his students John Harvey and Charles Holland The results of this period are

summarized in Conrad's blue notes C **Ordered Groups and Topology** Adam J. Clay, Dale Rolfsen, 2016 This book deals with the connections between topology and ordered groups It begins with a self-contained introduction to orderable groups and from there explores the interactions between orderability and objects in low dimensional topology such as knot theory braid groups and 3 manifolds as well as groups of homeomorphisms and other topological structures The book also addresses recent applications of orderability in the studies of codimension one foliations and Heegaard Floer homology The use of topological methods in proving algebraic results is another feature of the book The book w **Theory of Lattice-Ordered Groups** Michael Darnel, 1994-11-15 Provides a thorough discussion of the orderability of a group The book details the major developments in the theory of lattice ordered groups delineating standard approaches to structural and permutation representations A radically new presentation of the theory of varieties of lattice ordered groups is offered This work is intended for pure and applied mathematicians and algebraists interested in topics such as group order number and lattice theory universal algebra and representation theory and upper level undergraduate and graduate students in these disciplines College or university bookstores may order five or more copies at a special student price which is available from Marcel Dekker Inc upon request

Encyclopaedia of Mathematics M. Hazewinkel, 2013-12-01 **Canadian Mathematical Bulletin**, 1974-06 **Encyclopaedia of Mathematics** Michiel Hazewinkel, 2012-12-06 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 **Fully Ordered Groups** A. I. Kokorin, Ali Ivanovich Kokorin, Valerii Matveevich Kopytov, 1974

Ordered Permutation Groups Andrew Martin William Glass, 1981 As a result of the work of the nineteenth century mathematician Arthur Cayley algebraists and geometers have extensively studied permutation of sets In the special case that the underlying set is linearly ordered there is a natural subgroup to study namely the set of permutations that preserves that order In some senses these are universal for automorphisms of models of theories The purpose of this book is to make a thorough comprehensive examination of these groups of permutations After providing the initial background Professor Glass develops the general structure theory emphasizing throughout the geometric and intuitive aspects of the subject He includes many applications to infinite simple groups ordered permutation groups and lattice ordered groups The streamlined approach will enable the beginning graduate student to reach the frontiers of the subject smoothly and quickly Indeed much of the material included has never been available in book form before so this account should also be useful as a reference work for professionals

Ordered Groups Jo E. Smith, G. Otis Kenny, Richard N. Ball, 1980 These proceedings bring together an outstanding collection of original papers which give an up to the minute view of research in the field of ordered structures These papers present technical results new uses of ideas and techniques from other areas of mathematics being used to study ordered structures There is a special emphasis on fundamental discussions of the impact of ideas from mathematical logic and model theory on lattice ordered groups Chapters present elegant permutation results an examination of the influence of Cauchy space techniques on completion results and purely algebraic discussions emphasizing structural questions Suitable for graduate students and mathematics researchers

Partially Ordered Abelian Groups with Interpolation K. R. Goodearl, 2010-05-30 A branch of ordered algebraic structures has grown motivated by K theoretic applications and mainly concerned with partially ordered abelian groups satisfying the Riesz interpolation property This monograph is the first source in which the algebraic and analytic aspects of these interpolation groups have been integrated into a coherent framework for general reference The author provides a solid foundation in the structure theory of interpolation groups and dimension groups directed unperforated interpolation groups with applications to ordered K theory particularly in mind Although interpolation groups are defined as purely algebraic structures their development has been strongly influenced by functional analysis This cross cultural development has left interpolation groups somewhat estranged from both the algebraists who may feel intimidated by compact convex sets and the functional analysts who may feel handicapped by the lack of scalars This book requiring only standard first year graduate courses in algebra and functional analysis aims to make the subject accessible to readers from both disciplines High points of the development include the following characterization of dimension groups as direct limits of finite products of copies of the integers the double dual representation of an interpolation group with order unit via affine continuous real valued functions on its state space the

structure of dimension groups complete with respect to the order unit norm as well as monotone sigma complete dimension groups and dimension groups with countably infinite interpolation and an introduction to the problem of classifying extensions of one dimension group by another The book also includes a development of portions of the theory of compact convex sets and Choquet simplices and an expository discussion of various applications of interpolation group theory to rings and C DEGREES algebras via ordered K_0 A discussion of some open problems in interpolation groups and dimension groups concludes the book Of interest of course to researchers in ordered algebraic structures the book will also be a valuable source for researchers seeking a background in interpolation groups and dimension groups for applications to such subjects as rings operator algebras topological Markov chains positive polynomials compact group actions or other areas where ordered Grothendieck groups might be useful This is a reprint of the 1986 original SUR Fully Ordered Groups Aleksandr Il'ich Kokorin, Valerii Matveevich Kopytov, 1974 Journal of the London Mathematical Society London Mathematical Society, 1960

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