Reflection Groups and Coxeter Groups

JAMES E. HUMPHREYS

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George Grätzer, Friedrich Wehrung

Reflection Groups And Coxeter Groups:

Reflection Groups and Coxeter Groups James E. Humphreys, 1992-10 This graduate textbook presents a concrete and up to date introduction to the theory of Coxeter groups The book is self contained making it suitable either for courses and seminars or for self study. The first part is devoted to establishing concrete examples Finite reflection groups acting on Euclidean spaces are discussed and the first part ends with the construction of the affine Weyl groups a class of Coxeter groups that plays a major role in Lie theory The second part which is logically independent of but motivated by the first develops from scratch the properties of Coxeter groups in general including the Bruhat ordering and the seminal work of Kazhdan and Lusztig on representations of Hecke algebras associated with Coxeter groups is introduced Finally a number of interesting complementary topics as well as connections with Lie theory are sketched The book concludes with an extensive bibliography on Coxeter groups and their applications Finite Reflection Groups L.C. Grove, C.T. Benson, 2013-03-09 Chapter 1 introduces some of the terminology and notation used later and indicates prerequisites Chapter 2 gives a reasonably thorough account of all finite subgroups of the orthogonal groups in two and three dimensions The presentation is somewhat less formal than in succeeding chapters For instance the existence of the icosahedron is accepted as an empirical fact and no formal proof of existence is included Throughout most of Chapter 2 we do not distinguish between groups that are geo metrically indistinguishable that is conjugate in the orthogonal group Very little of the material in Chapter 2 is actually required for the sub sequent chapters but it serves two important purposes It aids in the development of geometrical insight and it serves as a source of illustrative examples There is a discussion offundamental regions in Chapter 3 Chapter 4 provides a correspondence between fundamental reflections and funda mental regions via a discussion of root systems The actual classification and construction of finite reflection groups takes place in Chapter 5 where we have in part followed the methods of E Witt and B L van der Waerden Generators and relations for finite reflection groups are discussed in Chapter 6 **Reflection Groups and Invariant** There are historical remarks and suggestions for further reading in a Post lude **Theory** Richard Kane, 2013-03-09 Reflection Groups and their invariant theory provide the main themes of this book and the first two parts focus on these topics The first 13 chapters deal with reflection groups Coxeter groups and Weyl groups in Euclidean Space while the next thirteen chapters study the invariant theory of pseudo reflection groups The third part of the book studies conjugacy classes of the elements in reflection and pseudo reflection groups The book has evolved from various graduate courses given by the author over the past 10 years It is intended to be a graduate text accessible to students with a basic background in algebra Richard Kane is a professor of mathematics at the University of Western Ontario His research interests are algebra and algebraic topology Professor Kane is a former President of the Canadian Mathematical Society **Reflection Groups and Invariant Theory** Richard Kane, 2001-06-21 Reflection groups and invariant theory is a branch

Reflection Groups and Invariant Theory Richard Kane,2001-06-21 Reflection groups and invariant theory is a branch of mathematics that lies at the intersection between geometry and algebra The book contains a deep and elegant theory

evolved from various graduate courses given by the author over the past 10 years Foundations of Hyperbolic Manifolds John Ratcliffe, 2013-03-09 This book is an exposition of the theoretical foundations of hyperbolic manifolds It is intended to be used both as a textbook and as a reference Particular emphasis has been placed on readability and completeness of ar gument The treatment of the material is for the most part elementary and self contained The reader is assumed to have a basic knowledge of algebra and topology at the first year graduate level of an American university The book is divided into three parts The first part consisting of Chap ters 1 7 is concerned with hyperbolic geometry and basic properties of discrete groups of isometries of hyperbolic space The main results are the existence theorem for discrete reflection groups the Bieberbach theorems and Selberg's lemma The second part consisting of Chapters 8 12 is devoted to the theory of hyperbolic manifolds The main results are Mostow's rigidity theorem and the determination of the structure of geometrically finite hyperbolic manifolds The third part consisting of Chapter 13 in tegrates the first two parts in a development of the theory of hyperbolic orbifolds. The main results are the construction of the universal orbifold covering space and Poincare's fundamental polyhedron theorem Handbook of Geometric Topology R.B. Sher, R.J. Daverman, 2001-12-20 Geometric Topology is a foundational component of modern mathematics involving the study of spacial properties and invariants of familiar objects such as manifolds and complexes This volume which is intended both as an introduction to the subject and as a wide ranging resouce for those already grounded in it consists of 21 expository surveys written by leading experts and covering active areas of current research They provide the reader with an up to date overview of this flourishing branch of mathematics Introduction to Soergel Bimodules Ben Elias, Shotaro Makisumi, Ulrich Thiel, Geordie Williamson, 2020-09-26 This book provides a comprehensive introduction to Soergel bimodules First introduced by Wolfgang Soergel in the early 1990s they have since become a powerful tool in geometric representation theory. On the one hand these bimodules are fairly elementary objects and explicit calculations are possible On the other they have deep connections to Lie theory and geometry Taking these two aspects together they offer a wonderful primer on geometric representation theory. In this book the reader is introduced to the theory through a series of lectures which range from the basics all the way to the latest frontiers of research This book serves both as an introduction and as a reference guide to the theory of Soergel bimodules Thus it is intended for anyone who wants to learn about this exciting field from graduate students to experienced researchers

Formal Power Series and Algebraic Combinatorics, 1994 Louis J. Billera, Because of the inteplay among many fields of mathematics and science algebraic combinatorics is an area in which a wide variety of ideas and methods come together. The papers in this volume reflect the most interesting aspects of this rich interaction and will be of interest to researchers in discrete mathematics and combinatorial systems

Lattice Theory: Special Topics and Applications George.

Grätzer, Friedrich Wehrung, 2016-10-08. George Gr tzer s. Lattice Theory Foundation is his third book on lattice theory. General Lattice Theory. 1978. Second edition. 1998. In 2009. Gr tzer considered updating the second edition to reflect some exciting and

deep developments He soon realized that to lay the foundation to survey the contemporary field to pose research problems would require more than one volume and more than one person So Lattice Theory Foundation provided the foundation Now we complete this project with Lattice Theory Special Topics and Applications in two volumes written by a distinguished group of experts to cover some of the vast areas not in Foundation This second volume is divided into ten chapters contributed by K Adaricheva N Caspard R Freese P Jipsen J B Nation N Reading H Rose L Santocanale and F Wehrung Lie Groups

Claudio Procesi, 2007-10-17 Lie groups has been an increasing area of focus and rich research since the middle of the 20th century Procesi s masterful approach to Lie groups through invariants and representations gives the reader a comprehensive treatment of the classical groups along with an extensive introduction to a wide range of topics associated with Lie groups symmetric functions theory of algebraic forms Lie algebras tensor algebra and symmetry semisimple Lie algebras algebraic groups group representations invariants Hilbert theory and binary forms with fields ranging from pure algebra to functional analysis Key to this unique exposition is the large amount of background material presented so the book is accessible to a reader with relatively modest mathematical background Historical information examples exercises are all woven into the text Lie Groups An Approach through Invariants and Representations will engage a broad audience including advanced undergraduates graduates mathematicians in a variety of areas from pure algebra to functional analysis and mathematical physics

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