

Reflection Groups and Coxeter Groups

JAMES E. HUMPHREYS

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Reflection Groups And Coxeter Groups

James E. Humphreys



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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

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

Reflection groups and coxeter groups James E. Humphreys, 1990 *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 geometrically indistinguishable that is conjugate in the orthogonal group Very little of the material in Chapter 2 is actually required for the subsequent 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 of fundamental regions in Chapter 3 Chapter 4 provides a correspondence between fundamental reflections and fundamental 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 There are historical remarks and suggestions for further reading in a Postlude

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 argument 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 Chapters 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 integrates 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 Poincaré'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 spatial 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 resource 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 Finite Reflection Groups Larry C. Grove, Clark T. Benson, 1985-01-01

Formal Power Series and Algebraic Combinatorics, 1994 Louis J. Billera, Because of the interplay 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 **Buildings and Classical Groups** Paul B. Garrett, 1997-04-01 Buildings are highly structured geometric objects primarily used in the finer study of the groups that act upon them In Buildings and Classical Groups the author develops the basic theory of buildings and BN pairs with a focus on the results needed to apply it to the representation theory of p -adic groups In particular he addresses spherical and affine buildings and the spherical building at infinity attached to an affine building He also covers in detail many otherwise apocryphal results Classical matrix groups play a prominent role in this study not only as vehicles to illustrate general results but as primary objects of interest The author introduces and completely develops terminology and results relevant to classical groups He also emphasizes the importance of the reflection or Coxeter groups and develops from scratch everything about reflection groups needed for this study of buildings In addressing the more elementary spherical constructions the background pertaining to classical groups includes basic results about quadratic forms alternating forms and hermitian forms on vector spaces plus a description of parabolic subgroups as stabilizers of flags of subspaces The text then moves on to a detailed study of the subtler less commonly treated affine case where the background concerns p -adic numbers more general discrete valuation rings and lattices in vector spaces over ultrametric fields Buildings and Classical Groups provides essential background material for specialists in several fields particularly mathematicians interested in automorphic forms representation theory p -adic groups number theory algebraic groups and Lie theory No other available source provides such a complete and detailed treatment

Lattice Theory: Special Topics and Applications George Grätzer, Friedrich Wehrung, 2016-10-08 George Grätzer's Lattice Theory Foundation is his third book on lattice theory General Lattice Theory 1978 second edition 1998 In 2009 Grätzer

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

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

Representations of Reductive Groups Roger W. Carter, Meinolf Geck, 1998-09-03 This volume provides a very accessible introduction to the representation theory of reductive algebraic groups

Unitary Reflection Groups Gustav I. Lehrer, Donald E. Taylor, 2009-08-13 A complex reflection is a linear transformation which fixes each point in a hyperplane Intuitively it resembles the transformation an image undergoes when it is viewed through a kaleidoscope or arrangement of mirrors This book gives a complete classification of all groups of transformations of n dimensional complex space which are generated by complex reflections using the method of line systems In particular irreducible groups are studied in detail and are identified with finite linear groups reflection subgroups of reflection groups are completely classified the theory of eigenspaces of elements of reflection

groups is discussed fully an appendix outlines links to representation theory topology and mathematical physics Containing over 100 exercises ranging in difficulty from elementary to research level this book is ideal for honours and graduate students or for researchers in algebra topology and mathematical physics *The Cosmological Singularity* Vladimir Belinski,Marc Henneaux,2018 This book mathematically derives the theory underlying the Belinski Khalatnikov Lifshitz conjecture on the general solution of the Einstein equations with a cosmological singularity New Perspectives in Algebraic Combinatorics Louis J. Billera,1999-09-28 This text contains expository contributions by respected researchers on the connections between algebraic geometry topology commutative algebra representation theory and convex geometry

The Lefschetz Properties Tadahito Harima,Toshiaki Maeno,Hideaki Morita,Yasuhide Numata,Akihito Wachi,Junzo Watanabe,2013-08-23 This is a monograph which collects basic techniques major results and interesting applications of Lefschetz properties of Artinian algebras The origin of the Lefschetz properties of Artinian algebras is the Hard Lefschetz Theorem which is a major result in algebraic geometry However for the last two decades numerous applications of the Lefschetz properties to other areas of mathematics have been found as a result of which the theory of the Lefschetz properties is now of great interest in its own right It also has ties to other areas including combinatorics algebraic geometry algebraic topology commutative algebra and representation theory The connections between the Lefschetz property and other areas of mathematics are not only diverse but sometimes quite surprising e g its ties to the Schur Weyl duality This is the first book solely devoted to the Lefschetz properties and is the first attempt to treat those properties systematically

Formal Power Series and Algebraic Combinatorics (Series Formelles et Combinatoire Algebrique), 1994 Louis J. Billera,1996 Because of the interplay 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 **Groups and Symmetry** Bijan Davvaz,2021-11-17 This textbook provides a readable account of the examples and fundamental results of groups from a theoretical and geometrical point of view This is the second book of the set of two books on groups theory Topics on linear transformation and linear groups group actions on sets Sylow s theorem simple groups products of groups normal series free groups platonic solids Frieze and wallpaper symmetry groups and characters of groups have been discussed in depth Covering all major topics this book is targeted to advanced 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 Finite Simple Groups Robert Wilson,2009-12-12 Thisbookisintendedasanintroductiontoallthenitesimplegroups During themonumentalstruggletoclassifythenitesimplegroups andindeedsince a huge amount of information about these groups has been accumulated Conveyingthisinformationtothenextgenerationofstudentsandresearchers not to mention those who might wish to apply this

knowledge has become a major challenge With the publication of the two volumes by Aschbacher and Smith [12, 13] in 2004 we can reasonably regard the proof of the Classification Theorem for Finite Simple Groups usually abbreviated CFSG as complete Thus it is timely to attempt an overview of all the non abelian finite simple groups in one volume For expository purposes it is convenient to divide them into four basic types namely the alternating classical exceptional and sporadic groups The study of alternating groups soon develops into the theory of permutation groups which is well served by the classic text of Wielandt [170] and more modern treatments such as the comprehensive introduction by Dixon and Mortimer [53] and more specialised texts such as that of Cameron [19]

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