

GRADUATE STUDIES
IN MATHEMATICS **39**

Classical Groups and Geometric Algebra

Larry C. Grove



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Classical Groups And Geometric Algebra

Melissa Lynn Meehan



Classical Groups And Geometric Algebra:

Classical Groups and Geometric Algebra Larry C. Grove, 2002 A graduate level text on the classical groups groups of matrices or more often quotients of matrix groups by small normal subgroups It pulls together into a single source the basic facts about classical groups defined over fields together with the required geometrical background information from first principles The chief prerequisites are basic linear algebra and abstract algebra including fundamentals of group theory and some Galois Theory The author teaches at the U of Arizona c Book News Inc

Conjugacy in Finite Classical Groups

Giovanni De Franceschi, Martin W. Liebeck, Eamonn A. O'Brien, 2025-05-05 This book provides a comprehensive coverage of the theory of conjugacy in finite classical groups Given such a classical group G the three fundamental problems considered are the following to list a representative for each conjugacy class of G to describe the centralizer of each representative by giving its group structure and a generating set and to solve the conjugacy problem in G namely given two elements of G establish whether they are conjugate and if so find a conjugating element The book presents comprehensive theoretical solutions to all three problems and uses these solutions to formulate practical algorithms In parallel to the theoretical work implementations of these algorithms have been developed in Magma These form a critical component of various general algorithms in computational group theory for example computing character tables and solving conjugacy problems in arbitrary finite groups

Clifford Algebras and the Classical Groups

Ian R. Porteous, 1995-10-05 The Clifford algebras of real quadratic forms and their complexifications are studied here in detail and those parts which are immediately relevant to theoretical physics are seen in the proper broad context Central to the work is the classification of the conjugation and reversion anti involutions that arise naturally in the theory It is of interest that all the classical groups play essential roles in this classification Other features include detailed sections on conformal groups the eight dimensional non associative Cayley algebra its automorphism group the exceptional Lie group G_2 and the triality automorphism of $Spin(8)$ The book is designed to be suitable for the last year of an undergraduate course or the first year of a postgraduate course

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 [The Geometry of the Classical Groups](#) Donald E. Taylor, 1992

The Classical Groups and K-Theory Alexander J. Hahn, O. Timothy O'Meara, 2013-03-09 It is a great satisfaction for a mathematician to witness the growth and expansion of a theory in which he has taken some part during its early years When H Weyl coined the words classical groups foremost in his mind were their connections with invariant theory which his famous book helped to revive Although his approach in that book was deliberately algebraic his interest in these groups directly derived from his pioneering study of the special case in which the scalars are real or complex numbers where for the first time he injected Topology into Lie theory But ever since the definition of Lie groups the analogy between simple classical groups over finite fields and simple classical groups over \mathbb{R} or \mathbb{C} had been observed even if the concept of simplicity was not quite the same in both cases With the discovery of the exceptional simple complex Lie algebras by Killing and E Cartan it was natural to look for corresponding groups over finite fields and already around 1900 this was done by Dickson for the exceptional Lie algebras G_2 and F_4 However a deep reason for this 2-6 parallelism was missing and it is only Chevalley who in 1955 and 1961 discovered that to each complex simple Lie algebra corresponds by a uniform process a group scheme G over the ring \mathbb{Z} of integers from which for any field K could be derived a group $G(K)$ [The Finite Simple Groups](#) Robert Wilson, 2009-12-14 This book is intended as an introduction to all the finite simple groups During the monumental struggle to classify the finite simple groups and indeed since a huge amount of information about these groups has been accumulated Conveying this information to the next generation of students and researchers 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 *Computational Noncommutative Algebra and Applications* Jim Byrnes, Gerald Ostheimer, 2004-09-03 The fusion of algebra analysis and geometry and their application to real world problems have been dominant themes underlying mathematics for over a century Geometric algebras introduced and

classified by Clifford in the late 19th century have played a prominent role in this effort as seen in the mathematical work of Cartan Brauer Weyl Chevalley Atiyah and Bott and in applications to physics in the work of Pauli Dirac and others One of the most important applications of geometric algebras to geometry is to the representation of groups of Euclidean and Minkowski rotations This aspect and its direct relation to robotics and vision will be discussed in several chapters of this multi authored textbook which resulted from the ASI meeting Moreover group theory beginning with the work of Burnside Frobenius and Schur has been influenced by even more general problems As a result general group actions have provided the setting for powerful methods within group theory and for the use of groups in applications to physics chemistry molecular biology and signal processing These aspects too will be covered in detail With the rapidly growing importance of and ever expanding conceptual and computational demands on signal and image processing in remote sensing computer vision medical image processing and biological signal processing and on neural and quantum computing geometric algebras and computational group harmonic analysis the topics of the book have emerged as key tools The list of authors includes many of the world s leading experts in the development of new algebraic modeling and signal representation methodologies novel Fourier based and geometric transforms and computational algorithms required for realizing the potential of these new application fields

Buildings Peter Abramenko, Kenneth S. Brown, 2008-12-16 This text started out as a revised version of Buildings by the second named author 53 but it has grown into a much more voluminous book The earlier book was intended to give a short friendly elementary introduction to theory accessible to readers with a minimal background Moreover it approached buildings from only one point of view sometimes called the old fashioned approach A building is a simplicial complex with certain properties The current book includes all the material of the earlier one but we have added a lot In particular we have included the modern or W metric approach to buildings which looks quite different from the old fashioned approach but is equivalent to it This has become increasingly important in the theory and applications of buildings We have also added a thorough treatment of the Moufang property which occupies two chapters And we have added many new exercises and illustrations Some of the exercises have hints or solutions in the back of the book A more extensive set of solutions is available in a separate solutions manual which may be obtained from Springer s Mathematics Editorial Department We have tried to add the new material in such a way that readers who are content with the old fashioned approach can still get an elementary treatment of it by reading selected chapters or sections In particular many readers will want to omit the optional sections marked with a star The introduction below provides more detailed guidance to the reader

Geometric Algebra Over Local Rings Bernard R. McDonald, 1976 *Topological and Statistical Methods for Complex Data* Janine Bennett, Fabien Vivodtzev, Valerio Pascucci, 2014-11-19 This book contains papers presented at the Workshop on the Analysis of Large scale High Dimensional and Multi Variate Data Using Topology and Statistics held in Le Barp France June 2013 It features the work of some of the most prominent and recognized leaders in the field who examine challenges as

well as detail solutions to the analysis of extreme scale data The book presents new methods that leverage the mutual strengths of both topological and statistical techniques to support the management analysis and visualization of complex data It covers both theory and application and provides readers with an overview of important key concepts and the latest research trends Coverage in the book includes multi variate and or high dimensional analysis techniques feature based statistical methods combinatorial algorithms scalable statistics algorithms scalar and vector field topology and multi scale representations In addition the book details algorithms that are broadly applicable and can be used by application scientists to glean insight from a wide range of complex data sets

Encyclopaedia of Mathematics M. Hazewinkel,2013-12-01

Encyclopaedia of Mathematics Michiel Hazewinkel,2013-12-01 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

Real Spinorial Groups Sebastià Xambó-Descamps,2018-11-22 This book explores the Lipschitz spinorial groups versor pinor spinor and rotor groups of a real non degenerate orthogonal geometry or orthogonal geometry for short and how they relate to the group of isometries of that geometry After a concise mathematical introduction it offers an axiomatic presentation of the geometric algebra of an orthogonal geometry Once it has established the language of geometric algebra linear grading of the algebra geometric exterior and interior products involutions it defines the spinorial groups demonstrates their relation to the isometry groups and illustrates their suppleness geometric covariance with a variety of examples Lastly the book provides pointers to major applications an extensive bibliography and an alphabetic index Combining the characteristics of a self contained research monograph and a state of the art survey this book is a valuable foundation reference resource on applications for both undergraduate and graduate students

Buildings and Classical Groups Paul B. Garrett,2012-11-06 This book describes the structure of the classical groups meaning general linear groups

symplectic groups and orthogonal groups both over general fields and in finer detail over p adic fields To this end half of the text is a systematic development of the theory of buildings and BN pairs both spherical and affine while the other half is illustration by and application to the classical groups The viewpoint is that buildings are the fundamental objects used to study groups which act upon them Thus to study a group one discovers or constructs a building naturally associated to it on which the group acts nicely This discussion is intended to be intelligible after completion of a basic graduate course in algebra so there are accounts of the necessary facts about geometric algebra reflection groups p adic numbers and other discrete valuation rings and simplicial complexes and their geometric realizations It is worth noting that it is the building theoretic aspect not the algebraic group aspect which determines the nature of the basic representation theory of p adic reductive groups

Classical Groups from a Non-classical Viewpoint William M. Kantor, 1979 **Some Basic Hypergeometric Polynomials Arising from Finite Classical Groups** Dennis Warren Stanton, 1977 *Classical Groups* Ferdinand Douwe Veldkamp, 1965 Groups of Diffeomorphisms R. C. Penner, 2008 This volume is dedicated to Shigeyuki Morita on the occasion of his 60th birthday It consists of selected papers on recent trends and results in the study of various groups of diffeomorphisms including mapping class groups from the point of view of algebraic and differential topology as well as dynamical ones involving foliations and symplectic or contact diffeomorphisms Most of the authors were invited speakers or participants of the International Symposium on Groups of Diffeomorphisms 2006 which was held at the University of Tokyo Komaba in September 2006 The editors believe that the scope of this volume well reflects Morita's mathematical interests and hope this book inspires not only the specialists in these fields but also a wider audience of mathematicians

Detection of Symplectic Commutator Subgroups Melissa Lynn Meehan, 2004

Reviewing **Classical Groups And Geometric Algebra**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Classical Groups And Geometric Algebra**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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