

Algebra

Larry C. Grove



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Algebra Larry C Grove:

Algebra Larry C. Grove, 2004-01-01 This graduate level text is intended for initial courses in algebra that begin with first principles but proceed at a faster pace than undergraduate level courses. It employs presentations and proofs that are accessible to students and it provides numerous concrete examples. Exercises appear throughout the text clarifying concepts as they arise; additional exercises varying widely in difficulty are included at the ends of the chapters. Subjects include groups, rings, fields, and Galois theory; modules and structure of rings and algebras. Further topics encompass infinite Abelian groups, transcendental field extensions, representations and characters of finite groups, Galois groups, and additional areas. Based on many years of classroom experience, this self-contained treatment breathes new life into abstract concepts. *Algebra*

, 1983-11-01 **Algebra** **Classical Groups and Geometric Algebra** Larry C. Grove, 1900 Classical groups, named so by Hermann Weyl, are groups of matrices or quotients of matrix groups by small normal subgroups. Thus the story begins as Weyl suggested with Her All embracing Majesty the general linear group $GL_n(V)$ of all invertible linear transformations of a vector space V over a field F . All further groups discussed are either subgroups of $GL_n(V)$ or closely related quotient groups. Most of the classical groups consist of invertible linear transformations that respect a bilinear form having some geometric significance, e.g. a quadratic form, a symplectic form, etc. Accordingly, the author develops the required geometric notions, albeit from an algebraic point of view, as the end results should apply to vector spaces over more or less arbitrary fields, finite or infinite. The classical groups have proved to be important in a wide variety of venues ranging from physics to geometry and far beyond. In recent years, they have played a prominent role in the classification of the finite simple groups. This text provides a single source for the basic facts about the classical groups and also includes the required geometrical background information from the first principles. It is intended for graduate students who have completed standard courses in linear algebra and abstract algebra. The author, L. C. Grove, is a well-known expert who has published extensively in the subject area.

Classical Groups and Geometric Algebra Larry C. Grove, 2024-12-30 Classical groups, named so by Hermann Weyl, are groups of matrices or quotients of matrix groups by small normal subgroups. Thus the story begins as Weyl suggested with Her All embracing Majesty the general linear group $GL_n(V)$ of all invertible linear transformations of a vector space V over a field F . All further groups discussed are either subgroups of $GL_n(V)$ or closely related quotient groups. Most of the classical groups consist of invertible linear transformations that respect a bilinear form having some geometric significance, e.g. a quadratic form, a symplectic form, etc. Accordingly, the author develops the required geometric notions, albeit from an algebraic point of view, as the end results should apply to vector spaces over more or less arbitrary fields, finite or infinite. The classical groups have proved to be important in a wide variety of venues ranging from physics to geometry and far beyond. In recent years, they have played a prominent role in the classification of the finite simple groups. This text provides a single source for the basic facts about the classical groups and also includes the required geometrical background information from

the first principles It is intended for graduate students who have completed standard courses in linear algebra and abstract algebra The author L C Grove is a well known expert who has published extensively in the subject area

A Course in Algebra Ernest Borisovich Vinberg, 2003-04-10 This is a comprehensive textbook on modern algebra written by an internationally renowned specialist It covers material traditionally found in advanced undergraduate and basic graduate courses and presents it in a lucid style The author includes almost no technically difficult proofs and reflecting his point of view on mathematics he tries wherever possible to replace calculations and difficult deductions with conceptual proofs and to associate geometric images to algebraic objects The effort spent on the part of students in absorbing these ideas will pay off when they turn to solving problems outside of this textbook Another important feature is the presentation of most topics on several levels allowing students to move smoothly from initial acquaintance with the subject to thorough study and a deeper understanding Basic topics are included such as algebraic structures linear algebra polynomials and groups as well as more advanced topics such as affine and projective spaces tensor algebra Galois theory Lie groups and associative algebras and their representations Some applications of linear algebra and group theory to physics are discussed The book is written with extreme care and contains over 200 exercises and 70 figures It is ideal as a textbook and also suitable for independent study for advanced undergraduates and graduate students

Representation Theory of Finite Groups: Algebra and Arithmetic Steven H. Weintraub, 2003 We explore widely in the valley of ordinary representations and we take the reader over the mountain pass leading to the valley of modular representations to a point from which s he can survey this valley but we do not attempt to widely explore it We hope the reader will be sufficiently fascinated by the scenery to further explore both valleys on his her own from the Preface Representation theory plays important roles in geometry algebra analysis and mathematical physics In particular representation theory has been one of the great tools in the study and classification of finite groups There are some beautiful results that come from representation theory Frobenius s Theorem Burnside s Theorem Artin s Theorem Brauer s Theorem all of which are covered in this textbook Some seem uninspiring at first but prove to be quite useful Others are clearly deep from the outset And when a group finite or otherwise acts on something else as a set of symmetries for example one ends up with a natural representation of the group This book is an introduction to the representation theory of finite groups from an algebraic point of view regarding representations as modules over the group algebra The approach is to develop the requisite algebra in reasonable generality and then to specialize it to the case of group representations Methods and results particular to group representations such as characters and induced representations are developed in depth Arithmetic comes into play when considering the field of definition of a representation especially for subfields of the complex numbers The book has an extensive development of the semisimple case where the characteristic of the field is zero or is prime to the order of the group and builds the foundations of the modular case where the characteristic of the field divides the order of the group The book assumes only the material of a

standard graduate course in algebra It is suitable as a text for a year long graduate course The subject is of interest to students of algebra number theory and algebraic geometry The systematic treatment presented here makes the book also valuable as a reference

Hamilton's Ricci Flow Bennett Chow, Peng Lu, Lei Ni, 2023-07-13 Ricci flow is a powerful analytic method for studying the geometry and topology of manifolds This book is an introduction to Ricci flow for graduate students and mathematicians interested in working in the subject To this end the first chapter is a review of the relevant basics of Riemannian geometry For the benefit of the student the text includes a number of exercises of varying difficulty The book also provides brief introductions to some general methods of geometric analysis and other geometric flows Comparisons are made between the Ricci flow and the linear heat equation mean curvature flow and other geometric evolution equations whenever possible Several topics of Hamilton's program are covered such as short time existence Harnack inequalities Ricci solitons Perelman's no local collapsing theorem singularity analysis and ancient solutions A major direction in Ricci flow via Hamilton's and Perelman's works is the use of Ricci flow as an approach to solving the Poincaré conjecture and Thurston's geometrization conjecture

Scattering Theory, Revised Edition Peter D. Lax, Ralph S. Phillips, 1990-02-22 This revised edition of a classic book which established scattering theory as an important and fruitful area of research reflects the wealth of new results discovered in the intervening years This new revised edition should continue to inspire researchers to expand the application of the original ideas proposed by the authors

Modern Geometric Structures and Fields Сергей Петрович Новиков, Искандер Асанович Тайманов, 2006 Presents the basics of Riemannian geometry in its modern form as geometry of differentiable manifolds and the important structures on them This book shows that Riemannian geometry has a great influence to several fundamental areas of modern mathematics and its applications

Continuous Time Markov Processes Thomas M. Liggett, 2025-08-27 Markov processes are among the most important stochastic processes for both theory and applications This book develops the general theory of these processes and applies this theory to various special examples The initial chapter is devoted to the most important classical example one dimensional Brownian motion This together with a chapter on continuous time Markov chains provides the motivation for the general setup based on semigroups and generators Chapters on stochastic calculus and probabilistic potential theory give an introduction to some of the key areas of application of Brownian motion and its relatives A chapter on interacting particle systems treats a more recently developed class of Markov processes that have as their origin problems in physics and biology This is a textbook for a graduate course that can follow one that covers basic probabilistic limit theorems and discrete time processes

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