

Algebra

Larry C. Grove



Algebra Larry C Grove

Puja Mehta

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.

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.

Groups and Characters Larry C. Grove, 2011-09-26 An authoritative full year course on both group theory and ordinary character theory essential tools for mathematics and the physical sciences. One of the few treatments available combining both group theory and character theory. Groups and Characters is an effective general textbook on these two fundamentally connected subjects. Presuming only a basic knowledge of abstract algebra as in a first year graduate course the text opens with a review of background material and then guides readers carefully through several of the most important aspects of groups and characters concentrating mainly on finite groups. Challenging yet accessible Groups and Characters features An extensive collection of examples surveying many different types of groups including Sylow subgroups of symmetric groups affine groups of fields the Mathieu groups and symplectic groups. A thorough easy to follow discussion of Polya Redfield enumeration with applications to combinatorics. Inclusive explorations of the transfer function and normal complements induction and restriction of characters Clifford theory characters of symmetric and alternating groups Frobenius groups and the Schur index. Illuminating accounts of several computational aspects of group theory such as the Schreier Sims algorithm Todd Coxeter coset enumeration and algorithms for generating character tables. As valuable as Groups and Characters will prove as a textbook for mathematicians it has broader applications. With chapters suitable for use as independent review units along with a full bibliography and index it will be a dependable general reference for chemists physicists and crystallographers.

Several Complex

Variables with Connections to Algebraic Geometry and Lie Groups Joseph L. Taylor, 2025-03-21 This text presents an integrated development of the theory of several complex variables and complex algebraic geometry leading to proofs of Serre's celebrated GAGA theorems relating the two subjects and including applications to the representation theory of complex

semisimple Lie groups It includes a thorough treatment of the local theory using the tools of commutative algebra an extensive development of sheaf theory and the theory of coherent analytic and algebraic sheaves proofs of the main vanishing theorems for these categories of sheaves and a complete proof of the finite dimensionality of the cohomology of coherent sheaves on compact varieties The vanishing theorems have a wide variety of applications and these are covered in detail Of particular interest are the last three chapters which are devoted to applications of the preceding material to the study of the structure and representations of complex semisimple Lie groups Included are introductions to harmonic analysis the Peter Weyl theorem Lie theory and the structure of Lie algebras semisimple Lie algebras and their representations algebraic groups and the structure of complex semisimple Lie groups All of this culminates in Mili i s proof of the Borel Weil Bott theorem which makes extensive use of the material developed earlier in the text There are numerous examples and exercises in each chapter This modern treatment of a classic point of view would be an excellent text for a graduate course on several complex variables as well as a useful reference for the expert **A Course in Algebra** Ernest Borisovich Vinberg,2003 Great book The author s teaching experinece shows in every chapter Efim Zelmanov University of California San Diego Vinberg has written an algebra book that is excellent both as a classroom text or for self study It is plain that years of teaching abstract algebra have enabled him to say the right thing at the right time Irving Kaplansky MSRI This is a comprehensive text on modern algebra written for advanced undergraduate and basic graduate algebra classes The book is based on courses taught by the author at the Mechanics and Mathematics Department of Moscow State University and at the Mathematical College of the Independent University of Moscow The unique feature of the book is that it contains almost no technically difficult proofs Following his point of view on mathematics the author tried whenever possible to replace calculations and difficult deductions with conceptual proofs and to associate geometric images to algebraic objects Another important feature is that the book presents most of the topics on several levels allowing the student to move smoothly from initial acquaintance to thorough study and deeper understanding of the subject Presented are basic topics in algebra such as algebraic structures linear algebra polynomials groups as well as more advanced topics like affine and projective spaces tensor algebra Galois theory Lie groups associative algebras and their representations Some applications of linear algebra and group theory to physics are discussed Written with extreme care and supplied with more than 200 exercises and 70 figures the book is also an excellent text for independent study **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

Linear Algebra in Action Harry Dym,2007 Linear algebra permeates mathematics perhaps more so than any other single subject It plays an essential role in pure and applied mathematics statistics computer science and many aspects of physics and engineering This book conveys in a user friendly way the basic and advanced techniques of linear algebra from the point of view of a working analyst The techniques are illustrated by a wide sample of applications and examples that are chosen to highlight the tools of the trade In short this is material that the author wishes he had been taught as a graduate student Roughly the first third of the book covers the basic material of a first course in linear algebra The remaining chapters are devoted to applications drawn from vector calculus numerical analysis control theory complex analysis convexity and functional analysis In particular fixed point theorems extremal problems matrix equations zero location and eigenvalue location problems and matrices with nonnegative entries are discussed Appendices on useful facts from analysis and supplementary information from complex function theory are also provided for the convenience of the reader The book is suitable as a text or supplementary reference for a variety of courses on linear algebra and its applications as well as for self study

Graduate Algebra Louis Halle Rowen,2008 This book is an expanded text for a graduate course in commutative algebra focusing on the algebraic underpinnings of algebraic geometry and of number theory Accordingly the theory of affine algebras is featured treated both directly and via the theory of Noetherian and Artinian modules and the theory of graded algebras is included to provide the foundation for projective varieties Book Jacket

Graduate Algebra: Noncommutative View Louis Halle Rowen,2024-11-07 This book is a companion volume to Graduate Algebra Commutative View published as volume 73 in this series The main and most important feature of the book

is that it presents a unified approach to many important topics such as group theory ring theory Lie algebras and gives conceptual proofs of many basic results of noncommutative algebra There are also a number of major results in noncommutative algebra that are usually found only in technical works such as Zelmanov s proof of the restricted Burnside problem in group theory word problems in groups Tits s alternative in algebraic groups PI algebras and many of the roles that Coxeter diagrams play in algebra The first half of the book can serve as a one semester course on noncommutative algebra whereas the remaining part of the book describes some of the major directions of research in the past 100 years The main text is extended through several appendices which permits the inclusion of more advanced material and numerous exercises The only prerequisite for using the book is an undergraduate course in algebra whenever necessary results are quoted from Graduate Algebra Commutative View

Differential Algebraic Topology Matthias Kreck,2010 This book presents a geometric introduction to the homology of topological spaces and the cohomology of smooth manifolds The author introduces a new class of stratified spaces so called stratifolds He derives basic concepts from differential topology such as Sard s theorem partitions of unity and transversality Based on this homology groups are constructed in the framework of stratifolds and the homology axioms are proved This implies that for nice spaces these homology groups agree with ordinary singular homology Besides the standard computations of homology groups using the axioms straightforward constructions of important homology classes are given The author also defines stratifold cohomology groups following an idea of Quillen Again certain important cohomology classes occur very naturally in this description for example the characteristic classes which are constructed in the book and applied later on One of the most fundamental results Poincare duality is almost a triviality in this approach Some fundamental invariants such as the Euler characteristic and the signature are derived from co homology groups These invariants play a significant role in some of the most spectacular results in differential topology In particular the author proves a special case of Hirzebruch s signature theorem and presents as a highlight Milnor s exotic 7 spheres This book is based on courses the author taught in Mainz and Heidelberg Readers should be familiar with the basic notions of point set topology and differential topology The book can be used for a combined introduction to differential and algebraic topology as well as for a quick presentation of co homology in a course about differential geometry

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Algebra Larry C Grove Introduction

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