

GRADUATE STUDIES
IN MATHEMATICS **180**

**Advanced
Modern Algebra**
Third Edition, Part 2
Joseph J. Rotman



AMERICAN
MATHEMATICAL
SOCIETY

Advanced Algebra Graduate Studies Mathematics

Western Reserve University

The logo of Western Reserve University, featuring a red circular emblem with a white stylized 'W' and 'R' inside.

Advanced Algebra Graduate Studies Mathematics:

Advanced Modern Algebra Joseph J. Rotman, 2010-08-11 This book is designed as a text for the first year of graduate algebra but it can also serve as a reference since it contains more advanced topics as well This second edition has a different organization than the first It begins with a discussion of the cubic and quartic equations which leads into permutations group theory and Galois theory for finite extensions infinite Galois theory is discussed later in the book The study of groups continues with finite abelian groups finitely generated groups are discussed later in the context of module theory Sylow theorems simplicity of projective unimodular groups free groups and presentations and the Nielsen Schreier theorem subgroups of free groups are free The study of commutative rings continues with prime and maximal ideals unique factorization noetherian rings Zorn's lemma and applications varieties and Gröbner bases Next noncommutative rings and modules are discussed treating tensor product projective injective and flat modules categories functors and natural transformations categorical constructions including direct and inverse limits and adjoint functors Then follow group representations Wedderburn Artin theorems character theory theorems of Burnside and Frobenius division rings Brauer groups and abelian categories Advanced linear algebra treats canonical forms for matrices and the structure of modules over PIDs followed by multilinear algebra Homology is introduced first for simplicial complexes then as derived functors with applications to Ext Tor and cohomology of groups crossed products and an introduction to algebraic K theory Finally the author treats localization Dedekind rings and algebraic number theory and homological dimensions The book ends with the proof that regular local rings have unique factorization Publisher's description

A Course in Algebra Ernest Borisovich Vinberg, 2003 Great book The author's teaching experience 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 *Advanced algebra* Sharon Louise Senk, University of Chicago. School Mathematics Project, 1996 **Catalogue of the Officers and Graduates of Yale University** Yale University, 1918 College for Women Western Reserve University, 1915 Fifty Major Thinkers on Education Joy Palmer, Liora Bresler, David Cooper, 2002-09-11 In this unique work some of today's greatest educators present concise accessible summaries of the great educators of the past Covering a time span from 500 BC to the early twentieth century each essay gives key biographical information an outline of the individual's principal achievements and activities an assessment of their impact and influence a list of their major writings and suggested further reading Together with *Fifty Modern Thinkers on Education* this book provides a unique reference guide for all students of education **Annual register** Stanford University, 1917 *National Science Foundation Authorization* United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science, Technology, and Space, 1981 **Announcement of Courses** Stanford University, 1916 University Catalogue Yale University, 1912

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