# INTRODUCTION TO MODERN ALGEBRA & MATRIX THEORY

Second Faition

Schreier & E. Sperner

# **Modern Algebra And Matrix Theory**

Ross Allen Beaumont, Richard William Ball

#### **Modern Algebra And Matrix Theory:**

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**Abstract Algebra** Israel Kleiner, 2007-09-20 Prior to the nineteenth century algebra meant the study of the solution of polynomial equations By the twentieth century it came to encompass the study of abstract axiomatic systems such as groups rings and fields This presentation provides an account of the history of the basic concepts results and theories of abstract algebra The development of abstract algebra was propelled by the need for new tools to address certain classical problems that appeared unsolvable by classical means A major theme of the approach in this book is to show how abstract algebra has arisen in attempts to solve some of these classical problems providing a context from which the reader may gain a deeper appreciation of the mathematics involved Mathematics instructors algebraists and historians of science will find the work a valuable reference The book may also serve as a supplemental text for courses in abstract algebra or the history of 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 Gr obner 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

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