

Introduction To Modern Algebra

Neal Henry McCoy

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Dec 2017. 1. Copyright (C) 2008, 2017. ii. I dedicate this book to my friend and colleague Arthur Chou. Arthur encouraged me to write
this book. I'm sorry that he did not live to see it finished. Arthur was born in 1954 in Taipei, Taiwan. He received his bachelors in
mathematics in 1976 from Tunghai University and his PhD from Stony Brook in 1982. After a year at the Institute for Advanced Study at
Princeton, he joined Clark University in 1983. We'll be looking at several kinds of algebraic structures this semester, the three
major kinds being fields in chapter 2, rings in chapter 3, and groups in chapter 4, but also minor variants of these structures.

[Einführung in die analytische Geometrie und Algebra. English]. Introduction to modern algebra and matrix / O. Schreier and E. Sperner. Dover ed. p. cm. Schreier and Sperner's justly famous Einführung in die Algebra und Analytische Geometrie was originally published in two volumes. Both of these volumes (with the omission of a final chapter on projective geometry) are here presented in a one-volume English translation, under the title Introduction to Modern Algebra and Matrix Theory. It may be noted that Chapter V of the present translation (Volume II, Chapter II of the original) incorporates the material of the authors' book Lectures on Matrices (Vorlesungen über Matrizen).

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7 Chapter 1 Introduction 1.1 Structures in Modern Algebra Fields, rings, and groups. We'll be looking at several kinds of algebraic structures this semester, the major kinds being fields, rings, and groups, but also minor variants of these structures. We'll start by examining the definitions and looking at some examples.

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