

Third Edition

Abstract Algebra

An Introduction

Thomas W. Hungerford

Abstract Algebra An Introduction 3rd Edition

Robert E. Megginson



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Abstract Algebra: Introduction To Groups, Rings And Fields With Applications (Second Edition) Clive Reis, Stuart A Rankin, 2016-08-30 This second edition covers essentially the same topics as the first However the presentation of the material has been extensively revised and improved In addition there are two new chapters one dealing with the fundamental theorem of finitely generated abelian groups and the other a brief introduction to semigroup theory and automata This book is appropriate for second to fourth year undergraduates In addition to the material traditionally taught at this level the book contains several applications Polya Burnside Enumeration Mutually Orthogonal Latin Squares Error Correcting Codes and a classification of the finite groups of isometries of the plane and the finite rotation groups in Euclidean 3 space semigroups and automata It is hoped that these applications will help the reader achieve a better grasp of the rather abstract ideas presented and convince him/her that pure mathematics in addition to having an austere beauty of its own can be applied to solving practical problems Considerable emphasis is placed on the algebraic system consisting of the congruence classes mod n under the usual operations of addition and multiplication The reader is thus introduced via congruence classes to the idea of cosets and factor groups This enables the transition to cosets and factor objects to be relatively painless In this book cosets factor objects and homomorphisms are introduced early on so that the reader has at his/her disposal the tools required to give elegant proofs of the fundamental theorems Moreover homomorphisms play such a prominent role in algebra that they are used in this text wherever possible

An Introduction

to Markov Processes Daniel W. Stroock, 2005-03-30 Provides a more accessible introduction than other books on Markov processes by emphasizing the structure of the subject and avoiding sophisticated measure theory Leads the reader to a rigorous understanding of basic theory *An Introduction to Banach Space Theory* Robert E. Megginson, 2012-12-06 Many important reference works in Banach space theory have appeared since Banach's *Théorie des Opérations Linéaires* the impetus for the development of much of the modern theory in this field While these works are classical starting points for the graduate student wishing to do research in Banach space theory they can be formidable reading for the student who has just completed a course in measure theory and integration that introduces the L_p spaces and would like to know more about Banach spaces in general The purpose of this book is to bridge this gap and provide an introduction to the basic theory of Banach spaces and functional analysis It prepares students for further study of both the classical works and current research It is accessible to students who understand the basic properties of L_p spaces but have not had a course in functional analysis The book is sprinkled liberally with examples historical notes and references to original sources Over 450 exercises provide supplementary examples and counterexamples and give students practice in the use of the results developed in the text **Subject Guide to Children's Books in Print 1997** Bowker Editorial Staff, R R Bowker Publishing, 1996-09

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