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Lucid coverage of the major theories of abstract algebra, with helpful illustrations and exercises

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included throughout.

*Unabridged, corrected
republication of the work
originally published 1971.*

Bibliography. Index.

*Includes 24 tables and
figures.*

Considered a classic by

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many, A First Course in Abstract Algebra is an in-depth introduction to abstract algebra. Focused on groups, rings and fields, this text gives students a firm foundation for more specialized work by

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*emphasizing an understanding
of the nature of algebraic
structures.*

*"A First Course in Linear
Algebra, originally by K.
Kuttler, has been redesigned
by the Lyryx editorial team
as a first course for the*

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general students who have an understanding of basic high school algebra and intend to be users of linear algebra methods in their profession, from business & economics to science students. All major topics of linear algebra are

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available in detail, as well as justifications of important results. In addition, connections to topics covered in advanced courses are introduced. The textbook is designed in a modular fashion to maximize

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flexibility and facilitate adaptation to a given course outline and student profile. Each chapter begins with a list of student learning outcomes, and examples and diagrams are given throughout the text to

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reinforce ideas and provide guidance on how to approach various problems. Suggested exercises are included at the end of each section, with selected answers at the end of the textbook. "--BCcampus

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website.

*Linear Algebra Problem Book
can be either the main
course or the dessert for
someone who needs linear
algebra and today that means
every user of mathematics.
It can be used as the basis*

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*of either an official course
or a program of private
study. If used as a course,
the book can stand by
itself, or if so desired, it
can be stirred in with a
standard linear algebra
course as the seasoning that*

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provides the interest, the challenge, and the motivation that is needed by experienced scholars as much as by beginning students. The best way to learn is to do, and the purpose of this book is to get the reader to

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DO linear algebra. The approach is Socratic: first ask a question, then give a hint (if necessary), then, finally, for security and completeness, provide the detailed answer.

A Book of Abstract Algebra

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*Instructor's Manual to
Accompany Fundamentals of
Abstract Algebra
Linear Algebra
An Introduction*

This text—based on the author's
popular courses at Pomona
College—provides a readable, student-

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friendly, and somewhat sophisticated introduction to abstract algebra. It is aimed at sophomore or junior undergraduates who are seeing the material for the first time. In addition to the usual definitions and theorems, there is ample discussion to help

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students build intuition and learn how to think about the abstract concepts. The book has over 1300 exercises and mini-projects of varying degrees of difficulty, and, to facilitate active learning and self-study, hints and short answers for many of the problems are

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provided. There are full solutions to over 100 problems in order to augment the text and to model the writing of solutions. Lattice diagrams are used throughout to visually demonstrate results and proof techniques. The book covers groups, rings, and fields. In

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group theory, group actions are the unifying theme and are introduced early. Ring theory is motivated by what is needed for solving Diophantine equations, and, in field theory, Galois theory and the solvability of polynomials take center stage. In each

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area, the text goes deep enough to demonstrate the power of abstract thinking and to convince the reader that the subject is full of unexpected results.

**CONTEMPORARY ABSTRACT
ALGEBRA, NINTH EDITION**

provides a solid introduction to the

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traditional topics in abstract algebra while conveying to students that it is a contemporary subject used daily by working mathematicians, computer scientists, physicists, and chemists. The text includes numerous figures, tables, photographs, charts, biographies,

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computer exercises, and suggested readings giving the subject a current feel which makes the content interesting and relevant for students.

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be available in the ebook version. Standard text provides an exceptionally comprehensive treatment of every aspect of modern algebra. Explores algebraic structures, rings and fields, vector spaces, polynomials, linear operators, much more. Over 1,300

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exercises. 1965 edition.

Designed for undergraduate and postgraduate students of mathematics, the book can also be used by those preparing for various competitive examinations. The text starts with a brief introduction to results from Set

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theory and Number theory. It then goes on to cover Groups, Rings, Fields and Linear Algebra. The topics under groups include subgroups, finitely generated abelian groups, group actions, solvable and nilpotent groups. The course in ring theory covers ideals,

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embedding of rings, Euclidean domains, PIDs, UFDs, polynomial rings, Noetherian (Artinian) rings. Topics of field include algebraic extensions, splitting fields, normal extensions, separable extensions, algebraically closed fields, Galois

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extensions, and construction by ruler and compass. The portion on linear algebra deals with vector spaces, linear transformations, Eigen spaces, diagonalizable operators, inner product spaces, dual spaces, operators on inner product spaces etc. The theory has been

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strongly supported by numerous examples and worked-out problems. There is also plenty of scope for the readers to try and solve problems on their own. New in this Edition • A full section on operators in inner product spaces. • Complete survey of finite

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groups of order up to 15 and
Wedderburn theorem on finite division
rings. • Addition of around one hundred
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examples. • Alternate and simpler
proofs of some results. • A new section
on quick recall of various useful results

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at the end of the book to facilitate the reader to get instant answers to tricky questions.

Calculus on Manifolds

Linear Algebra Problem Book

Abstract Algebra Manual

Dummit, Foote, Hungerford, Shifrin,

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Gallian, Fraleigh, Beachy, Herstein,
Saracino, Artin, Deskins

Algebra: Chapter 0 is a self-contained introduction to the main topics of algebra, suitable for a first sequence on the subject at the beginning graduate or upper

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undergraduate level. The primary distinguishing feature of the book, compared to standard textbooks in algebra, is the early introduction of categories, used as a unifying theme in the presentation of the main

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topics. A second feature consists of an emphasis on homological algebra: basic notions on complexes are presented as soon as modules have been introduced, and an extensive last chapter on homological algebra can form

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the basis for a follow-up introductory course on the subject. Approximately 1,000 exercises both provide adequate practice to consolidate the understanding of the main body of the text and offer the opportunity to

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explore many other topics, including applications to number theory and algebraic geometry. This will allow instructors to adapt the textbook to their specific choice of topics and provide the independent reader with a

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***richer exposure to algebra.
Many exercises include
substantial hints, and
navigation of the topics is
facilitated by an extensive
index and by hundreds of
cross-references.
This textbook offers an***

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invitation to modern algebra through number systems of increasing complexity, beginning with the natural numbers and culminating with Hamilton's quaternions. Along the way, the authors carefully develop the

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necessary concepts and methods from abstract algebra: monoids, groups, rings, fields, and skew fields. Each chapter ends with an appendix discussing related topics from algebra and number theory, including

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***recent developments
reflecting the relevance of the
material to current research.
The present volume is
intended for undergraduate
courses in abstract algebra or
elementary number theory.
The inclusion of exercises***

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with solutions also makes it suitable for self-study and accessible to anyone with an interest in modern algebra and number theory.

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subject, leading students to discover for themselves its main themes and techniques. Concepts are introduced conversationally through extensive examples and student investigation before being formally defined.

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Students will develop skills in carefully making statements and writing proofs, while they simultaneously build a sense of ownership over the ideas and results. The book has been extensively tested and reinforced at points of

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common student misunderstanding or confusion, and includes a wealth of exercises at a variety of levels. The contents were deliberately organized to follow the recommendations of the MAA's 2015 Curriculum

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Guide. The book is ideal for a one- or two-semester course in abstract algebra, and will prepare students well for graduate-level study in algebra.

265 challenging problems in all phases of group theory,

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*gathered for the most part
from papers published since
1950, although some classics
are included.*

***A First Undergraduate Course
Second Edition***

Algebra: Chapter 0

Instructor's Solution Manual

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This textbook, based on lectures given over a period of years at Cambridge, is a detailed and thorough introduction to Galois theory.

This is the most current

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textbook in teaching the basic concepts of abstract algebra. The author finds that there are many students who just memorise a theorem without having the ability to apply it to

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a given problem.

Therefore, this is a hands-on manual, where many typical algebraic problems are provided for students to be able to apply the theorems and to actually

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practice the methods they have learned. Each chapter begins with a statement of a major result in Group and Ring Theory, followed by problems and solutions. Contents: Tools and Major

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Results of Groups;
Problems in Group Theory;
Tools and Major Results of
Ring Theory; Problems in
Ring Theory; Index.

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Package, 5/e With traditional linear algebra texts, the course is relatively easy for students during the early stages as material is presented in a familiar,

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concrete setting. However, when abstract concepts are introduced, students often hit a wall. Instructors seem to agree that certain concepts (such as linear independence, spanning,

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subspace, vector space,
and linear
transformations) are not
easily understood and
require time to
assimilate. These concepts
are fundamental to the

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study of linear algebra,
so students' understanding
of them is vital to
mastering the subject.
This text makes these
concepts more accessible
by introducing them early

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in a familiar, concrete
"Rn" setting, developing
them gradually, and
returning to them
throughout the text so
that when they are
discussed in the abstract,

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students are readily able to understand.

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Engineers

Algebra für Einsteiger

Elements of Abstract

Algebra

Modern Algebra

**Fuck. It's one of those words that
sounds completely homely; as if pulled**

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from the pages of a Nicolas Bourbaki Junior's abstract algebra - but in fact, quite the opposite is true. Reading Fuckin' Abstract Algebra is a small adventure that one undertakes before doing something profoundly conventional. Probably this is the most fucked academic book, but definitely it

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is the best one to have fun and to learn from. The book contains separate chapters on groups, rings and fields, polynomial rings, quotient rings, field extensions. To imagine a taste of the book take a glance at the formulation of one theorem: "Every fuckin' shitty non-constant single-variable unfucked

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polynomial with fucky complex coefficients has at least one fucked complex root." Get ready to be completely shocked!

"This is an introduction to abstract algebra. It is anticipated that the students have studied calculus and probably linear algebra. However, these

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are primarily mathematical maturity prerequisites; subject matter from calculus and linear algebra appears mostly in illustrative examples and exercises. As in previous editions of the text, my aim remains to teach students as much about groups, rings, and fields as I can in a first course. For many

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students, abstract algebra is their first extended exposure to an axiomatic treatment of mathematics. Recognizing this, I have included extensive explanations concerning what we are trying to accomplish, how we are trying to do it, and why we choose these methods. Mastery of this text

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constitutes a firm foundation for more specialized work in algebra, and also provides valuable experience for any further axiomatic study of mathematics''--

This carefully written textbook offers a thorough introduction to abstract algebra, covering the fundamentals of

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groups, rings and fields. The first two chapters present preliminary topics such as properties of the integers and equivalence relations. The author then explores the first major algebraic structure, the group, progressing as far as the Sylow theorems and the classification of finite abelian groups.

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An introduction to ring theory follows, leading to a discussion of fields and polynomials that includes sections on splitting fields and the construction of finite fields. The final part contains applications to public key cryptography as well as classical straightedge and compass constructions. Explaining key

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topics at a gentle pace, this book is aimed at undergraduate students. It assumes no prior knowledge of the subject and contains over 500 exercises, half of which have detailed solutions provided.

**Relations between groups and sets,
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in terms of number theory and geometry, and noncommutative and homological algebra. Solutions. 2006 edition.

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*described in English that can be translated into the computer language the class is using and put to work solving problems and generating new examples **
Designed for a one-semester course, this text gives the

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student many examples to work through and copious exercises to test their skills and extend their knowledge of the subject
The Second Edition of this classic text maintains the clear exposition, logical organization,

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and accessible breadth of coverage that have been its hallmarks. It plunges directly into algebraic structures and incorporates an unusually large number of examples to clarify abstract concepts as they arise.

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Proofs of theorems do more than just prove the stated results; Saracino examines them so readers gain a better impression of where the proofs come from and why they proceed as they do. Most of the

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exercises range from easy to moderately difficult and ask for understanding of ideas rather than flashes of insight. The new edition introduces five new sections on field extensions and Galois theory, increasing its

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versatility by making it appropriate for a two-semester as well as a one-semester course.

Accessible but rigorous, this outstanding text encompasses all of the topics covered by a

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typical course in elementary abstract algebra. Its easy-to-read treatment offers an intuitive approach, featuring informal discussions followed by thematically arranged exercises. This second edition

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features additional exercises to improve student familiarity with applications. 1990 edition.

Galois theory is the culmination of a centuries-long search for a solution to the classical problem of solving algebraic

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equations by radicals. In this book, Bewersdorff follows the historical development of the theory, emphasizing concrete examples along the way. As a result, many mathematical abstractions are now seen as

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the natural consequence of particular investigations. Few prerequisites are needed beyond general college mathematics, since the necessary ideas and properties of groups and fields are

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provided as needed. Results in Galois theory are formulated first in a concrete, elementary way, then in the modern form. Each chapter begins with a simple question that gives the reader an idea of the nature

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and difficulty of what lies ahead. The applications of the theory to geometric constructions, including the ancient problems of squaring the circle, duplicating the cube, and trisecting an angle, and the

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*construction of regular
 n -gons are also presented.
This book is suitable for
undergraduates and beginning
graduate students.*

*A Course in Galois Theory
Problems and Solutions*

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has revised this classic text carefully and thoughtfully, drawing on years of experience teaching the course with this text to produce a meaningful and worthwhile update. This in-depth introduction gives students a firm foundation for more specialized work in algebra by including extensive

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