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principles and theory of abstract algebra to college juniors and seniors in a rigorous manner. Its strengths include a wide range of exercises, both computational and theoretical, plus many nontrivial applications.

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### ~~Applications~~

This book takes a &quot;group-first&quot;

### approach to

introductory

abstract algebra

with rings, fields,

vector spaces, and

Boolean algebras

introduced later.

Throughout the

textbook, in

addition to the

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examples and theory, there are several practical applications of abstract algebra with a particular emphasis on computer science, such as cryptography and coding theory.

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Sage is an open-  
source program for  
doing mathematics

and is the ideal  
companion to

Abstract Algebra:  
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Applications. Sage  
is designed to be a  
free, open source  
alternative to

Magma, Maple,

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Mathematica and Matlab. It includes many mature and powerful open-source tools for mathematics, such as GAP for group theory. With a strength in number theory, Sage also has excellent support for rings and fields.

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The book, Algebra:  
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Concrete provides  
a thorough  
introduction to  
algebra at a level  
suitable for upper  
level  
undergraduates  
and beginning

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Textbook

graduate students.

The book  
addresses the  
conventional  
topics: groups,  
rings, fields, and  
linear algebra, with  
symmetry as a  
unifying theme.

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This book is not intended for budding mathematicians. It was created for a math program in which most of the students in upper-level math classes are planning to become secondary school teachers. For such students, conventional

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abstract algebra  
texts are  
practically  
incomprehensible,  
both in style and in  
content. Faced with  
this situation, we  
decided to create a  
book that our  
students could ...

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of abstract algebra.

A basic knowledge

of set theory,

mathematical

induction,

equivalence

relations, and

matrices is a must.

Even more

important is the

ability to read and

understand

mathematical

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proofs. In this chapter we will outline the background needed for a course in abstract algebra. 1.1 A Short Note on Proofs Abstract mathematics is different from other sciences.

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Abstract theory still occupies a central role in the subject of abstract algebra and no student should go through such a course without a good notion of what a proof is, the importance of applications such as coding theory and cryptography

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has grown significantly. Until recently most abstract algebra texts included few if any applications.

## ~~Abstract Algebra Theory and Applications~~

This text is intended for a one- or two-semester undergraduate

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## Textbook

course in abstract algebra. Topics covered includes:

The Integers,  
Groups, Cyclic  
Groups,  
Permutation  
Groups, Cosets and  
Lagrange's  
Theorem, Algebraic  
Coding Theory,  
Isomorphisms,  
Normal Subgroups  
and Factor Groups,

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Matrix Groups and  
Symmetry, The  
Sylow Theorems ,  
Rings, Polynomials,  
Integral Domains,  
Vector Spaces,  
Finite Fields.

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## Textbook

Written textbook offers a thorough introduction to abstract algebra, covering the fundamentals of groups, rings and fields. The first two chapters present preliminary topics such as properties of the integers and equivalence relations. The

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Abstract  
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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in a rigorous  
manner. Its  
strengths include a  
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exercises, both computational and theoretical, plus many non-trivial applications.

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2015 by Judson,  
Thomas W. (ISBN:

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What is abstract  
algebra? (Wikipedia

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entry) A short article on abstract algebra, by Steven Strogatz, written for a general (non-mathematical) audience that appeared in the New York Times. Abstract Algebra: Theory and Applications, a free open-source textbook, by Tom

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Judson, Group  
Explorer, a free  
software program  
to accompany  
Visual Group  
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Though theory still  
occupies a central  
role in the subject  
of abstract algebra

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textbook that is designed to teach the principles and theory of abstract algebra to college juniors and seniors in a rigorous manner. Its strengths include a wide range of exercises, both computational and theoretical, plus many non-trivial

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applications.

Algebra Theory

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textbook that is

designed to teach

the principles and

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algebra to college

juniors and seniors

in a rigorous

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manner. Its strengths include a wide range of exercises, both computational and theoretical, plus many non-trivial applications. The first half of the book presents group theory, through the Sylow theorems, with enough material for

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## Textbook

a semester-long course. The second half is suitable for a second semester and presents rings, integral domains, Boolean algebras, vector spaces, and fields, concluding with Galois Theory.

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## Textbook

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textbook that is  
designed to teach  
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theory of abstract  
algebra to college  
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exercises, both  
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theoretical, plus

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Boolean algebras, vector spaces, and fields, concluding with Galois Theory.

## Applications

Abstract Algebra: Theory and Applications is an open-source textbook that is designed to teach the principles and theory of abstract algebra to college

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Abstract Juniors and seniors  
in a rigorous  
manner. Its  
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wide range of  
exercises, both  
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theoretical, plus  
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theorems, with enough material for a semester-long course. The second-half is suitable for a second semester and presents rings, integral domains, Boolean algebras, vector spaces, and fields, concluding with Galois Theory.

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Textbook

Abstract

Accessible but rigorous, this outstanding text encompasses all of the topics covered by a typical course in elementary abstract algebra. Its easy-to-read treatment offers an intuitive approach, featuring informal discussions

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Abstract by  
thematically  
arranged exercises.  
This second edition  
features additional  
exercises to  
improve student  
familiarity with  
applications. 1990  
edition.

Studying abstract  
algebra can be an  
adventure of awe-

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inspiring discovery.  
The subject need  
not be watered  
down nor should it  
be presented as if  
all students will  
become  
mathematics  
instructors. This is  
a beautiful,  
profound, and  
useful field which is  
part of the shared  
language of many

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areas both within and outside of mathematics. To begin this journey of discovery, some experience with mathematical reasoning is beneficial. This text takes a fairly rigorous approach to its subject, and expects the reader to understand and

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create proofs as well as examples throughout. The book follows a single arc, starting from humble beginnings with arithmetic and high-school algebra, gradually introducing abstract structures and concepts, and culminating with



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Niels Henrik Abel  
and Evariste

Galois'

achievement in  
understanding how

we can—and  
cannot—represent

the roots of  
polynomials. The

mathematically  
experienced reader

may recognize a  
bias toward

commutative

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And  
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algebra and  
fondness for  
number theory.

The presentation  
includes the  
following features:

Exercises are  
designed to  
support and extend  
the material in the  
chapter, as well as  
prepare for the  
succeeding  
chapters. The text

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can be used for a one, two, or three-term course. Each new topic is motivated with a question. A collection of projects appears in Chapter 23.

Abstract algebra is indeed a deep subject; it can transform not only the way one thinks

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### Abstract

about mathematics, but the way that one thinks—period. This book is offered as a manual to a new way of thinking.

The author's aim is to instill the desire to understand the material, to encourage more discovery, and to develop an

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Appreciation of the subject for its own sake.

A new approach to conveying abstract algebra, the area that studies algebraic structures, such as groups, rings, fields, modules, vector spaces, and algebras, that is

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essential to various scientific disciplines such as particle physics and cryptology. It provides a well written account of the theoretical foundations and it also includes a chapter on cryptography. End of chapter problems help

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readers with  
accessing the  
subjects.

Applications

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

Unabridged,

*Page 55/62*

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corrected  
republication of the  
work originally  
published 1971.

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Index. Includes 24  
tables and figures.

Taking a slightly  
different approach  
from similar texts,  
Introduction to  
Abstract Algebra  
presents abstract



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Abstract Algebra as the main tool underlying discrete mathematics and the digital world. It helps students fully understand groups, rings, semigroups, and monoids by rigorously building concepts from first principles. A Quick Introduction to Algebra The first

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three chapters of the book show how functional composition, cycle notation for permutations, and matrix notation for linear functions provide techniques for practical computation. The author also uses equivalence relations to

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introduce rational numbers and modular arithmetic as well as to present the first isomorphism theorem at the set level. The Basics of Abstract Algebra for a First-Semester Course Subsequent chapters cover orthogonal groups,

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matrices,  
Algebra, Theory  
And  
theorem, and  
Applications  
groups of units of  
monoids. The text  
also deals with  
homomorphisms,  
which lead to  
Cayley's theorem  
of reducing  
abstract groups to  
concrete groups of  
permutations. It

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then explores rings, integral domains, and fields. Advanced Topics for a Second-Semester Course The final, mostly self-contained chapters delve deeper into the theory of rings, fields, and groups. They discuss modules (such as

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vector spaces and  
abelian groups),  
group theory, and  
quasigroups.

## Applications

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