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This book takes a
"group-first"

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approach to introductory
abstract algebra with rings,
fields, vector spaces, and
Boolean algebras introduced
later. Throughout the
textbook, in addition to the
examples and theory, there
are several practical

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Applications of abstract algebra with a particular emphasis on computer science, such as cryptography and coding theory.

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of abstract algebra. A basic
knowledge of set theory,
mathematical induction,
equivalence relations, and
matrices is a must. Even

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more important is the ability to read and understand mathematical proofs. In this chapter we will outline the background needed for a course in abstract algebra. 1.1 A Short Note on Proofs

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Abstract mathematics is different from other sciences.

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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 has grown significantly. Until recently most

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included few if any
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(Wikipedia entry) A short
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by Steven Strogatz, written
for a general (non-
mathematical) audience that
appeared in the New York

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concluding with Galois
Theory.

This undergraduate text presents extensive coverage of set theory, groups, rings, modules, vector spaces, and fields. It

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offers numerous examples,
definitions, theorems,
proofs, and practice
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