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friendly, and
somewhat

sophisticated
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junior
undergraduates
who are seeing the
material for the
first time. In
addition to the
usual definitions

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and theorems, there is ample discussion to help 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

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throughout to
visually
demonstrate
results and proof
techniques. The
book covers
groups, rings, and
fields. In group
theory, group
actions are the
unifying theme and
are introduced
early. Ring theory
is motivated by

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what is needed for
solving

Diophantine
equations, and, in
field theory, Galois
theory and the
solvability of
polynomials take
center stage. In
each area, the text
goes deep enough
to demonstrate the
power of abstract
thinking and to

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students, this
survey contains
many examples,
solved exercises,
sets of problems,
and parts of
abstract algebra of
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applications not
included in the first
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assumes
knowledge of the
material covered in
a course on linear
algebra and,
preferably, a first
course in
(abstract) algebra

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basics of groups,
rings, and fields.
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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 exercises

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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,

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algebra, the
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structures, such
as groups,

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introduction to
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first sequence
on the subject
at the
beginning
graduate or
upper
undergraduate
level. The
primary
distinguishing
feature of the*

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book, compared to standard textbooks in algebra, is the early introduction of categories, used as a unifying theme in the presentation of the main topics. A

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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

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*homological
algebra can
form the basis
for a follow-up
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1,000 exercises
both provide
adequate
practice to
consolidate the*

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of the main
body of the
text and offer
the opportunity
to explore many
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geometry. This
will allow

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*indeed a deep
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