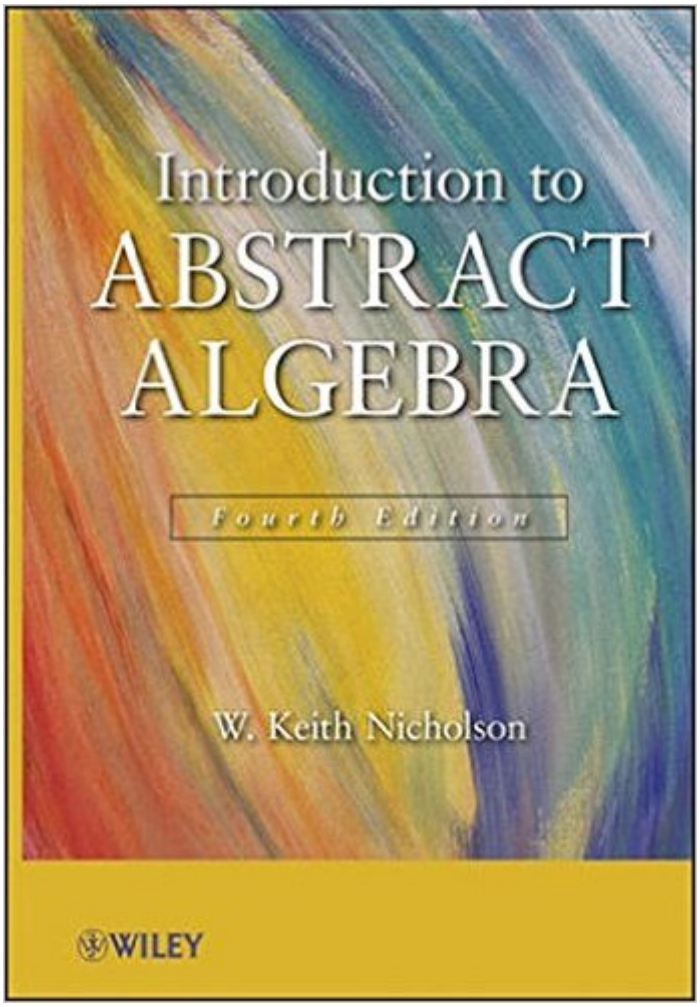
Introduction To Abstract Algebra



Synopsis

Praise for the Third Edition ". . . an expository masterpiece of the highest didactic value that has gained additional attractivity through the various improvements . . ."â ”Zentralblatt MATH The Fourth Edition of Introduction to Abstract Algebra continues to provide an accessible approach to the basic structures of abstract algebra: groups, rings, and fields. The book’s unique presentation helps readers advance to abstract theory by presenting concrete examples of induction, number theory, integers modulo n, and permutations before the abstract structures are defined. Readers can immediately begin to perform computations using abstract concepts that are developed in greater detail later in the text. The Fourth Edition features important concepts as well as specialized topics, including: The treatment of nilpotent groups, including the Frattini and Fitting subgroups Symmetric polynomials The proof of the fundamental theorem of algebra using symmetric polynomials The proof of Wedderburn’s theorem on finite division rings The proof of the Wedderburn-Artin theorem Throughout the book, worked examples and real-world problems illustrate concepts and their applications, facilitating a complete understanding for readers regardless of their background in mathematics. A wealth of computational and theoretical exercises, ranging from basic to complex, allows readers to test their comprehension of the material. In addition, detailed historical notes and biographies of mathematicians provide context for and illuminate the discussion of key topics. A solutions manual is also available for readers who would like access to partial solutions to the book’s exercises. Introduction to Abstract Algebra, Fourth Edition is an excellent book for courses on the topic at the upper-undergraduate and beginning-graduate levels. The book also serves as a valuable reference and self-study tool for practitioners in the fields of engineering, computer science, and applied mathematics.

Book Information

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Customer Reviews

I have noticed problem with the ebook version of this book. For a particular problem Section 1.3 question 25. There are suppose to be 6 parts to the problem. However in the ebook they only contain the first problem.

I use this for my algebraic structure class....I like how the author makes it very possible to self-study from this book

The typeset is professional, the structure of each chapter is logical and concise, and the book covers the important topics of algebra.

I would recommend this product to people who need it for an algebra class, or people who want to teach themselves the fundamentals of abstract algebra.I'd have to say that the proofs aren't always the most elegant, and some of the notations are simplified for novice readers, but it's fairly complete and intelligible.

Quote from page 26 of the second edition:"Anthropologists tell us that even the most primitive societies...have developed some sort of terminology for the numbers 1, 2, and 3. As a culture develops, it needs more sophisticated counting to deal with commerce, warfare, the calendar, and so on."Excuse me, but I'm pretty sure that any Anthropologist worth their spit would not use such ethnocentric language.

Third Edition: A Maple and MATLAB Approach, Third Edition (Textbooks in Mathematics) A Book of Abstract Algebra 2nd Second edition byPinter Abstract Algebra, 2nd Edition A First Course in Abstract Algebra (3rd Edition) A Concrete Approach to Abstract Algebra: From the Integers to the Insolvability of the Quintic Algebra 2, Student Edition (MERRILL ALGEBRA 2)