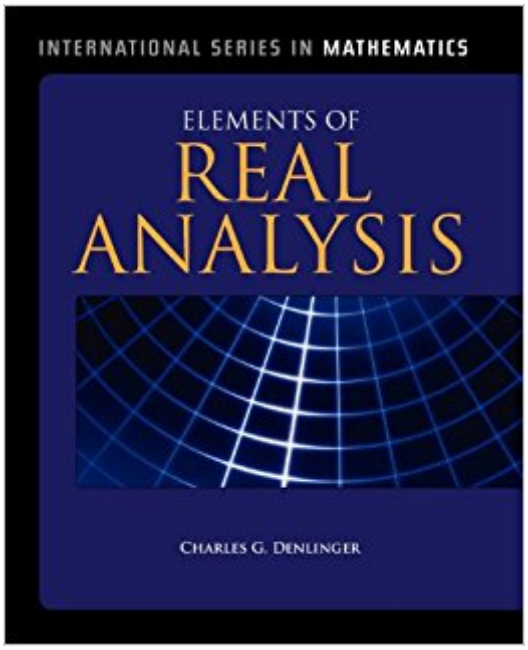
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Elements Of Real Analysis (International Series In Mathematics)



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Synopsis

Elementary Real Analysis is a core course in nearly all mathematics departments throughout the world. It enables students to develop a deep understanding of the key concepts of calculus from a mature perspective. Elements of Real Analysis is a student-friendly guide to learning all the important ideas of elementary real analysis, based on the author's many years of experience teaching the subject to typical undergraduate mathematics majors. It avoids the compact style of professional mathematics writing, in favor of a style that feels more comfortable to students encountering the subject for the first time. It presents topics in ways that are most easily understood, yet does not sacrifice rigor or coverage. In using this book, students discover that real analysis is completely deducible from the axioms of the real number system. They learn the powerful techniques of limits of sequences as the primary entry to the concepts of analysis, and see the ubiquitous role sequences play in virtually all later topics. They become comfortable with topological ideas, and see how these concepts help unify the subject. Students encounter many interesting examples, including "pathological" ones, that motivate the subject and help fix the concepts. They develop a unified understanding of limits, continuity, differentiability, Riemann integrability, and infinite series of numbers and functions.

Book Information

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Customer Reviews

Whether you are a newbie to real analysis who is still unsure of how the reals are constructed or a

veteran in the field seeking to sharpen your knowledge with some hardcore measure theory, this book serves both extremes. The author starts off from the absolute fundamentals of field and order axioms and works all the way up to Banach spaces while essentially spoon-feeding you with detailed and easy-to-follow proofs of otherwise abstruse theorems; in fact, they are so detailed and sometimes so obvious that I ended up skipping every other line of most proofs. Also, copious exercises (bordering on excessive), ranging from your run-of-the-mill proofs of why sin(x) is continuous to more intriguing problems like proving the uniqueness of the reals, provide the student with every opportunity to practice and master the material.

I purchased a used version of this book and I am very happy with the product.

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