A Course in Real Analysis. Edition No. 2

Description: The second edition of A Course in Real Analysis provides a solid foundation of real analysis concepts and principles, presenting a broad range of topics in a clear and concise manner. The book is excellent at balancing theory and applications with a wealth of examples and exercises. The authors take a progressive approach of skill building to help students learn to absorb the abstract. Real world applications, probability theory, harmonic analysis, and dynamical systems theory are included, offering considerable flexibility in the choice of material to cover in the classroom. The accessible exposition not only helps students master real analysis, but also makes the book useful as a reference.

New chapter on Hausdorff Measure and Fractals
Key concepts and learning objectives give students a deeper understanding of the material to enhance learning
More than 200 examples (not including parts) are used to illustrate definitions and results
Over 1300 exercises (not including parts) are provided to promote understanding
Each chapter begins with a brief biography of a famous mathematician

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Set Theory
The Real Number System and Calculus
Lebesgue Measure on the Real Line
The Lebesgue Integral on the Real Line
Elements of Measure Theory
Extensions to Measures and Product Measure
Elements of Probability
Differentiation and Absolute Continuity
Signed and Complex Measures
Topologies, Metrics, and Norms
Separability and Compactness
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