



Foundations of Mathematical Analysis

By *Saminathan Ponnusamy*

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Mathematical analysis is fundamental to the undergraduate curriculum not only because it is the stepping stone for the study of advanced analysis, but also because of its applications to other branches of mathematics, physics, and engineering at both the undergraduate and graduate levels.

This self-contained textbook consists of eleven chapters, which are further divided into sections and subsections. Each section includes a careful selection of special topics covered that will serve to illustrate the scope and power of various methods in real analysis. The exposition is developed with thorough explanations, motivating examples, exercises, and illustrations conveying geometric intuition in a pleasant and informal style to help readers grasp difficult concepts.

Foundations of Mathematical Analysis is intended for undergraduate students and beginning graduate students interested in a fundamental introduction to the subject. It may be used in the classroom or as a self-study guide without any required prerequisites.

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Editorial Review

Review

From the reviews:

“The book is intended for undergraduate students and beginning graduate students of mathematics. It can be used in the classroom or as a self-study guide. ... The text is organized in a classical way, each section is followed by a set of questions that stimulate the reader to think about the deeper nature of definitions or the background of theorems and exercises, which vary from routine to simple proofs.” (Vladimír Janiš, Zentralblatt MATH, Vol. 1236, 2012)

From the Back Cover

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Key features include:

- * “Questions and Exercises” are provided at the end of each section, covering a broad spectrum of content with various levels of difficulty;
- * Some of the exercises are routine in nature while others are interesting, instructive, and challenging with hints provided for selected exercises;
- * Covers a broad spectrum of content with a range of difficulty that will enable students to learn techniques and standard analysis tools;
- * Introduces convergence, continuity, differentiability, the Riemann integral, power series, uniform convergence of sequences and series of functions, among other topics;
- * Examines various important applications throughout the book;
- * Figures throughout the book to demonstrate ideas and concepts are drawn using *Mathematica*.

Foundations of Mathematical Analysis is intended for undergraduate students and beginning graduate students interested in a fundamental introduction to the subject. It may be used in the classroom or as a self-study guide without any required prerequisites.

Users Review

From reader reviews:

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