



Problems in Real Analysis, Second Edition

By Charalambos D. Aliprantis, Owen Burkinshaw

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A collection of problems and solutions in real analysis based on the major textbook, *Principles of Real Analysis* (also by Aliprantis and Burkinshaw), *Problems in Real Analysis* is the ideal companion for senior science and engineering undergraduates and first-year graduate courses in real analysis. It is intended for use as an independent source, and is an invaluable tool for students who wish to develop a deep understanding and proficiency in the use of integration methods.

Problems in Real Analysis teaches the basic methods of proof and problem-solving by presenting the complete solutions to over 600 problems that appear in *Principles of Real Analysis, Third Edition*. The problems are distributed in forty sections, and cover the entire spectrum of difficulty.

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Editorial Review

Review

"First published in 1981 as a textbook for undergraduate seniors and first-year graduate students in math, this iteration adds Fourier analysis, a chapter on Hilbert spaces, and about 150 new problems of varying difficulty. Aliprantis (economics and mathematics, Purdue U.) and Burkinshaw (mathematical sciences, Indiana U., Purdue U.) focus on measure theory via the semiring approach and the Lebesgue integral as well as their applications. They also cover topology and continuity, normed spaces, and special topics in integration. A humanistic touch: brief biographies of historical contributors to real analysis are interwoven throughout the text." --**Book News, Inc.®, Portland, OR**

From the Back Cover

Professors Aliprantis and Burkinshaw's *Problems in Real Analysis, 2nd Edition*, is designed to equip the reader with the tools to succeed in the real Analysis course. Published as a companion to their successful *Principles of Real Analysis, 3rd Edition*, this book teaches the basic methods of proof and problem-solving by presenting the complete solutions to over 600 problems that appeal in *Principles of Real Analysis*. The problem sets cover the entire spectrum of difficulty: some are routine, some require a good grasp of the material involved, and some are exceptionally challenging.

This is the first book to offer complete solutions to graduate level problems in real analysis. It is ideal for all under graduate and first-year graduate analysis courses. Students and scholars from all branches of science and engineering will also find this collection of problems an invaluable reference source.

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