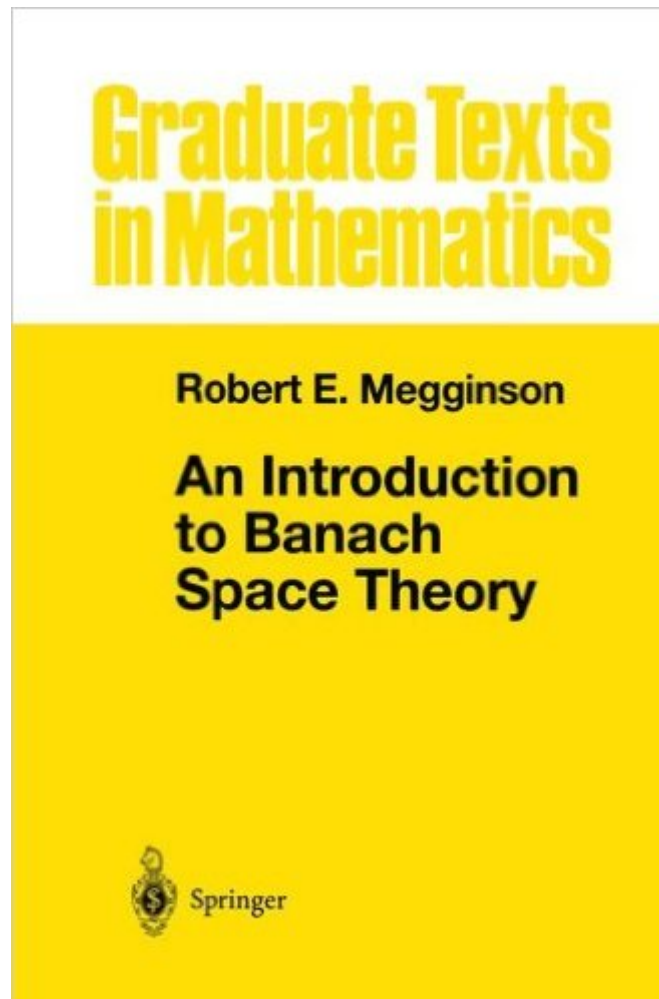


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# An Introduction To Banach Space Theory (Graduate Texts In Mathematics)



## Synopsis

Preparing students for further study of both the classical works and current research, this is an accessible text for students who have had a course in real and complex analysis and understand the basic properties of  $L^p$  spaces. It is sprinkled liberally with examples, historical notes, citations, and original sources, and over 450 exercises provide practice in the use of the results developed in the text through supplementary examples and counterexamples.

## Book Information

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## Customer Reviews

This is a text on the rudiments of Functional Analysis in the normed and Banach space setting. The case of Hilbert space is not emphasized. (Here are some examples of books on Hilbert space that I've found useful: Paul Halmos - Introduction to Hilbert Space and the Theory of Spectral Multiplicity, J.R. Retherford - Hilbert Space: Compact Operators and the Trace Theorem, and J. Weidmann - Linear Operators in Hilbert Spaces.) Other than that exception, this would make for a perfect textbook for use for, say, a two-semester Functional Analysis sequence for students who have had a graduate-level sequence in Real Variables (measure, integration,  $L^p$ -spaces) as from a textbook like Folland's Real Analysis. (Professor Megginson says something to this effect in the preface.) The book consists of five (very long) chapters. I've studied Chapters 1 & 2, and the majority of Chapters 3 & 4, but I haven't touched Chapter 5 (and so I cannot say anything about it). It's EXTREMELY well-written. The exposition is sometimes a bit bloated (and sometimes too pedantic); in my opinion, the book could have been a bit shorter without loss of clarity. However, in light of its great value, I

can easily overlook this. A VERY HELPFUL aspect of this book is that it's extremely well documented. By this, I mean that it's well-indexed, the bibliography and historical remarks are extensive; just about all of the important theorems include citations to their original sources. Also, I haven't found any typographical errors yet! Professor Megginson doesn't exasperate the reader by relegating important results to the exercises.

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