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A Short Course On Banach Space Theory (London Mathematical Society Student Texts)



Synopsis

This short course on classical Banach space theory is a natural follow-up to a first course on functional analysis. The topics covered have proven useful in many contemporary research arenas, such as harmonic analysis, the theory of frames and wavelets, signal processing, economics, and physics. The book is intended for use in an advanced topics course or seminar, or for independent study. It offers a more user-friendly introduction than can be found in the existing literature and includes references to expository articles and suggestions for further reading.

Book Information

Series: London Mathematical Society Student Texts (Book 64)

Paperback: 198 pages

Publisher: Cambridge University Press; 1 edition (December 6, 2004)

Language: English

ISBN-10: 0521603722

ISBN-13: 978-0521603720

Product Dimensions: 6 x 0.5 x 9 inches

Shipping Weight: 6.4 ounces (View shipping rates and policies)

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'This lively written text focuses on certain aspects of the (neo-) classical theory of Banach spaces as developed in the 1950s and 1960s and is intended as an introduction to the subject, e.g., for future Ph.D. students. ... This slim book is indeed very well suited to serve as an introduction to Banach spaces. Readers who have mastered it are well prepared to study more advanced texts such as P. Wojtaszczyk's *Banach Spaces for Analysts* (Cambridge University Press, second edition) or research papers.' *Zentralblatt MATH*... a painstaking attention both to detail in the mathematics and to accessibility for the reader. ... You could base a good postgraduate course on it.' *Bulletin of the London Mathematical Society*

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functional analysis. The topics covered have proven useful in many contemporary research arenas such as harmonic analysis, the theory of frames and wavelets, signal processing, economics, and physics. The book is intended for use as in an advanced topics course or seminar, or for independent study. It offers a gentler introduction than can be found in the existing literature, even including elementary exercises. In addition, the text includes references to expository articles and suggestions for further reading.

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