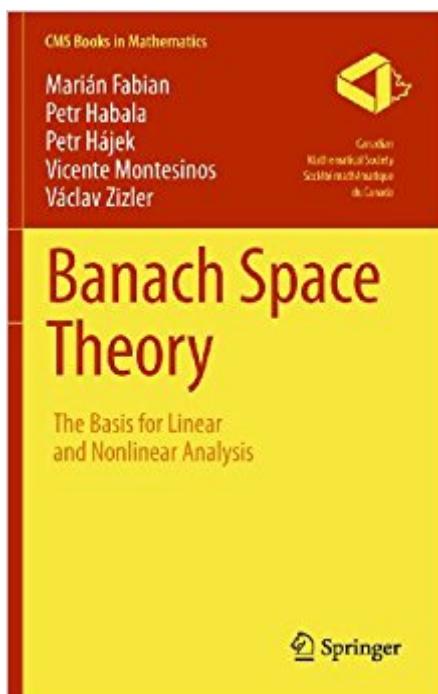


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Synopsis

Banach spaces provide a framework for linear and nonlinear functional analysis, operator theory, abstract analysis, probability, optimization and other branches of mathematics. This book introduces the reader to linear functional analysis and to related parts of infinite-dimensional Banach space theory. Key Features: - Develops classical theory, including weak topologies, locally convex space, Schauder bases and compact operator theory - Covers Radon-NikodÃƒÂm property, finite-dimensional spaces and local theory on tensor products - Contains sections on uniform homeomorphisms and non-linear theory, Rosenthal's L1 theorem, fixed points, and more- Includes information about further topics and directions of research and some open problems at the end of each chapter - Provides numerous exercises for practice The text is suitable for graduate courses or for independent study. Prerequisites include basic courses in calculus and linear. Researchers in functional analysis will also benefit for this book as it can serve as a reference book.

Book Information

File Size: 18056 KB

Print Length: 820 pages

Publisher: Springer; 2011 edition (February 4, 2011)

Publication Date: February 4, 2011

Sold by:Ã Digital Services LLC

Language: English

ASIN: B00F5TSR7O

Text-to-Speech: Not enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #619,993 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #17 inÃ Kindle Store > Kindle eBooks > Nonfiction > Science > Mathematics > Transformations #23 inÃ Kindle Store > Kindle eBooks > Nonfiction > Science > Mathematics > Pure Mathematics > Functional Analysis #30 inÃ Kindle Store > Kindle eBooks > Nonfiction > Science > Mathematics > Geometry & Topology > Topology

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