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Functional Analysis by Elias M. Stein (ebook)

Functional Analysis,
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Chapter 1 Lpspaces
and Banach Spaces
Yung-Hsiang Huang
2018.05.21 Abstract
Many problems are

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cited to my solution les
for Folland [4] and
Rudin [6] post here. 1
Exercises 1. The details
and generalizations are
discussed in my
solution les for Folland
[4, Exercise 6.6] and
Rudin [6, Exercise
3.4-3.5]. 2. Proof.

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Functional analysis is
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and Rami

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Shakarchi's Princeton lectures in analysis. Elias Stein is a world authority on harmonic analysis and it is not surprising therefore that the first book in the series was on Fourier analysis.

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After solving the exercises, I also discuss on the connection between exercises and other

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known theorems or perspectives, for example, Exercise 5.16 in Evans' PDEs or Chapter 6 of Folland's Real Analysis. I believe this will bring more fun and communications between us.

Functional Analysis: Introduction to Further Topics in ...

Elias M. Stein is the
Albert Baldwin Dod
Professor of
Mathematics at

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Princeton University.
Rami Shakarchi
received his PhD in
mathematics from
Princeton University.
They are the coauthors
of Complex Analysis,
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Elias M. Stein & Rami Shakarchi Functional Analysis

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Princeton Lectures in Analysis, a series of textbooks that aim to present, in an integrated manner, the core areas of analysis. Beginning with the basic facts of functional analysis, this volume looks at Banach spaces, L_p spaces, and distribution theory, and highlights their roles in harmonic analysis.

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Douban

Starting in about 1870
a revolutionary change
in the conceptual

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frame- work of analysis began to take shape, one that ultimately led to a vast transformation and generalization of the understanding of such basic ob- jects as functions, and such notions as continuity, difierentiability, and integrability.

**Functional
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in ...**

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Stein and Shakarchi move from an introduction addressing Fourier series and integrals to in-depth considerations of complex analysis; measure and integration theory, and Hilbert spaces; and, finally, further topics such as functional analysis, distributions and elements of probability theory.

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Recognition,

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Functional Analysis: Book Recommendations - ETH

Beginning with the basic facts of functional analysis, this volume looks at Banach spaces, L_p spaces, and distribution theory, and highlights their roles in harmonic analysis. The authors then use the Baire category theorem to illustrate several points,

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including the existence of Besicovitch sets. ...

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Beginning in the spring
of 2000, Stein taught a
sequence of four

intensive

undergraduate courses
in analysis at Princeton
University, where he
was a mathematics

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professor. At the same time he collaborated with Rami Shakarchi, then a graduate student in Princeton's math department studying under Charles Fefferman , to turn each of the courses into a textbook.

REAL ANALYSIS

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International Series in
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Rami Shakarchi.

Functional analysis,
volume 4 of Princeton
Lectures in Analysis.

Princeton University
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further topics in
analysis. [9 ...

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Functional Analysis | Princeton University Press

Functional analysis is the fourth and final book in Elias Stein's and Rami Shakarchi's Princeton lectures in analysis. Elias Stein is a world authority on harmonic analysis and it is not surprising therefore that the first book in the series was on Fourier analysis. The

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second and third books covered complex and real analysis.

Problems and

Solutions - □□□□□□

an integrated manner, the core areas of analysis. The objective was to make plain the organic unity that exists between the various parts of the subject, and to illustrate the wide applicability of ideas of analysis to other fields

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of mathematics and science. The present series of books is an elaboration of the lectures that were given.

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" Functional Analysis by Elias Stein and Rami Shakarchi is a fast-paced book on functional analysis and related topics. By page 60, you've had a

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decent course in functional analysis and you've got 360 pages left." —John D. Cook, Endeavour

"Characteristically, Stein and Shakarchi reward readers for hard work by making the material pay off."

Functional Analysis, Stein-Shakarchi Chapter 1 L spaces

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For the last ten years,
Eli Stein and Rami

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Shakarchi have undertaken a labor of love, producing a sequence of intensive undergraduate analysis courses and an accompanying set of four books, called the Princeton Lectures in Analysis. The individual titles are:

- Fourier Analysis: An Introduction
- Complex Analysis
- Real Analysis: Measure Theory, Integration,

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**Complex Analysis |
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Volume III □ Real
Analysis: Measure
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