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## Introductory Functional Analysis With Applications Erwin

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2 CONTENTS Notations:  $\dagger B(X;Y)$ : the space of all bounded (continuous) linear operators from  $X$  to  $Y$ .  $\dagger \text{Image}(T) \cdot \text{Ran}(T)$ : the image of a mapping  $T: X \rightarrow Y$ .  $\dagger x_n \rightharpoonup w x$ :  $x_n$  converges weakly to  $x$ .  $\dagger X'$ : the space of all bounded (continuous) linear functionals on  $X$ .  $\dagger F$  or  $K$ : the scalar field, which is  $\mathbb{R}$  or  $\mathbb{C}$ .  $\dagger \text{Re}; \text{Im}$ : the real and imaginary

parts of a complex number.

Introductory Functional Analysis With Applications

Literature: Kreyszig: Introductory Functional Analysis with

Applications, John Wiley & Sons, New York 1989. Also: Short text

on the spectral theorem for compact self-adjoint operators. The

following text may also be helpful: Mathematical statements and

proofs. Curriculum (some small changes are possible!): For 4 points.

For 6 points.

[Introductory Functional Analysis: With Applications to ...](#)

Text Book: Erwin Kreyszig, Introductory Functional Analysis

with applications, John Wiley and sons, New York Module I

Strong and weak convergence, convergence of sequence

of operators and functionals, open mapping theorem, closed

linear operators, closed graph theorem, Banach fixed point

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theorem

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Funktionalanalysis (Functional analysis), spring 2006.

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may not have been exposed to the conventional prerequisites for a  
course in functional analysis, such as real analysis.

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Kreyszig 1989-03-09 Provides avenues for applying functional  
analysis to the practical study of natural sciences as well as  
mathematics....

Functional Analysis Problems with Solutions

This introductory text examines applications of functional analysis to  
mechanics, fluid mechanics, diffusive growth, and approximation.  
Covers distribution theory, Banach spaces, Hilbert space, spectral  
theory, Frechet calculus, Sobolev spaces, more. 1985 edition.

SOLUTIONS MANUAL for -Kreyszig - Introductory Functional  
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Introductory functional analysis with applications. John Wiley &  
Sons Inc., New York, 1989. MR &#XA0;#&#XA0;90m:46003.

... Introductory real analysis. Dover Publications Inc., New York,  
1975. Translated from the second Russian edition and edited by  
Richard A. Silverman, Corrected reprinting. ...

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