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### Solution Of Introductory Functional Analysis

2 CONTENTS Notations:  $\mathcal{B}(X;Y)$ : the space of all bounded (continuous) linear operators from  $X$  to  $Y$ .  $\text{Im}(T)$  -  $\text{Ran}(T)$ : the image of a mapping  $T: X \rightarrow Y$ .  $\|x\|_X$ :  $x \in X$  converges weakly to  $x_0 \in X$ : the space of all bounded (continuous) linear functionals on  $X$ .  $\mathbb{F}$  or  $\mathbb{K}$ : the scalar field, which is  $\mathbb{R}$  or  $\mathbb{C}$ .  $\text{Re } z$ ,  $\text{Im } z$ : the real and imaginary parts of a complex number.

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### MAT 771 Functional Analysis - USM

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### Good book for self study of functional analysis

Best Solution Manual of Introductory Functional Analysis with Applications 1st Edition ISBN: 9780471504597 provided by CFS

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This was my textbook for a graduate course in functional analysis, and it is called "classic" by many professors. Don't be fooled by the title of the book: "Introductory" simply means the author assumes you have not seen the subject before, and it is by no means an easy subject. However, the exposition is extremely clear.

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Solutions of Some Exercises In this section the formulas are numbered (S1), (S2), etc., in order to avoid any confusion with formulas from the previous sections. 1.1 1. The equality  $f(x) = x^2$  implies that  $x \in f$ . Corollary 1.3 implies that  $F(x)$  is nonempty. It is clear from the second form of  $F(x)$  that  $F(x)$  is closed and convex. 2.

### Solutions of Some Exercises

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### Conway (1990) A Course in Functional analysis

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