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ABOUT THE AUTHOR In addition to Functional Analysis, Second Edition, Walter Rudin is the author of two other books: Principles of Mathematical Analysis and Real and Complex Analysis, whose widespread use is illustrated by the fact that they have been translated into a total of 13 languages.He wrote Principles of Mathematical Analysis while he was a C.L.E. Moore Instructor at the

### Prof. B. V. Limaye's Home Page

Professor Limaye earned his PhD in mathematics from the University of Rochester, New York, in 1969. His research interests include algebraic analysis, numerical functional analysis and linear algebra. He has published more than 50 articles in refereed journals.

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Solution of boundary value problems. Optimization problems. Applications to Integral and differential equations. References [1]Kreyszig, Introductory Functional Analysis With Applications, Wiley India Edition, 1989. [2]Walter Rudin, Functional Analysis, Tata Mc-Graw Hill, New Delhi.

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International Conference on `Topics in Functional Analysis and Numerical Analysis' held in honour of Prof. B.V. Limaye at I.I.T. Bombay during 7-9 December, 2005; Proceedings published in a Special Issue of Journal of Analysis (India), 2006.

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Functional analysis plays an important role in the applied sciences as well as in mathematics itself. These notes are intended to familiarize the student with the basic concepts, principles and methods of functional analysis and its applications, and they are intended for senior undergraduate or beginning graduate students.

### **Linear Functional Analysis for Scientists and Engineers ...**

6 2 Examples II 3. We have to assume that  $(Y; \|\cdot\|_Y)$  is a Banach space. Then if  $x_n \in X$  and  $x_n \rightarrow x$  (with  $x \in V$ ) we know that  $f(x_n)$  is Cauchy in  $V$ . So, since  $\|f(x_n) - f(x_m)\|_Y \leq \|x_n - x_m\|_X$  it follows that  $f(x_n)$  is a Cauchy sequence in  $Y$ . Since  $Y$  is complete, we know that  $\lim_{n \rightarrow \infty} f(x_n)$  exists and is an element of  $Y$ . If  $x$