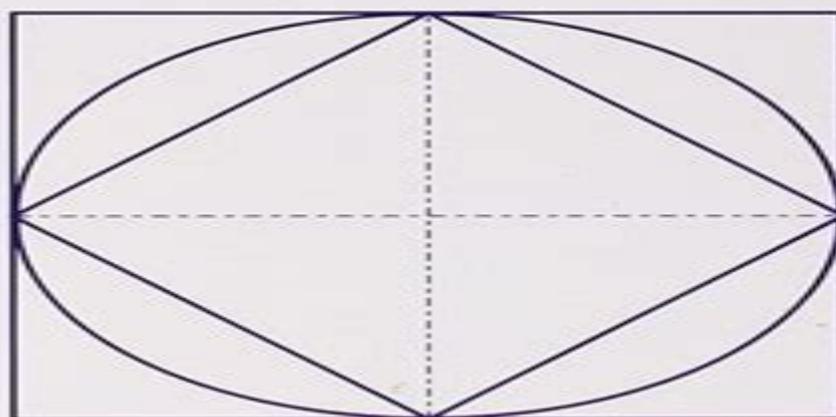


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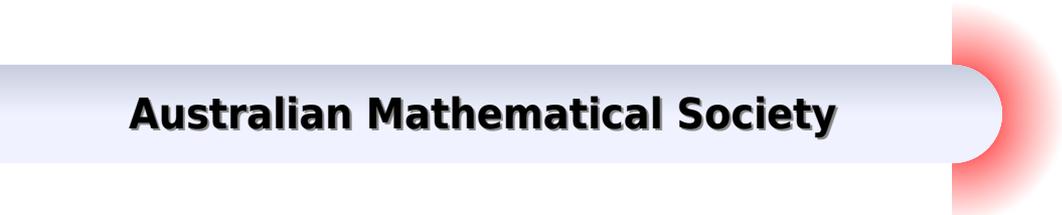
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# Functional Analysis By Balmohan Vishnu Limaye

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## **Functional Analysis By Balmohan Vishnu Limaye :**

**Linear Functional Analysis for Scientists and Engineers** Balmohan V. Limaye, 2016-06-18 This book provides a concise and meticulous introduction to functional analysis. Since the topic draws heavily on the interplay between the algebraic structure of a linear space and the distance structure of a metric space, functional analysis is increasingly gaining the attention of not only mathematicians but also scientists and engineers. The purpose of the text is to present the basic aspects of functional analysis to this varied audience, keeping in mind the considerations of applicability. A novelty of this book is the inclusion of a result by Zabrejko which states that every countably subadditive seminorm on a Banach space is continuous. Several major theorems in functional analysis are easy consequences of this result. The entire book can be used as a textbook for an introductory course in functional analysis without having to make any specific selection from the topics presented here. Basic notions in the setting of a metric space are defined in terms of sequences. These include total boundedness, compactness, continuity, and uniform continuity. Offering concise and to the point treatment of each topic in the framework of a normed space and of an inner product space, the book represents a valuable resource for advanced undergraduate students in mathematics and will also appeal to graduate students and faculty in the natural sciences and engineering. The book is accessible to anyone who is familiar with linear algebra and real analysis.

**Functional Analysis** Balmohan Vishnu Limaye, 1996 This book is an introductory text written with minimal prerequisites. The plan is to impose a distance structure on a linear space, exploit it fully, and then introduce additional features only when one cannot get any further without them. The book naturally falls into two parts, and each of them is developed independently of the other. The first part deals with normed spaces, their completeness, and continuous linear maps on them, including the theory of compact operators. The much shorter second part treats Hilbert spaces and leads up to the spectral theorem for compact self-adjoint operators. Four appendices point out areas of further development. Emphasis is on giving a number of examples to illustrate abstract concepts and on citing various applications of results proved in the text. In addition to proving existence and uniqueness of a solution, its approximate construction is indicated. Problems of varying degrees of difficulty are given at the end of each section. Their statements contain the answers as well.

**Functional Analysis** Balmohan Vishnu Limaye, 1981  
**Methods of Functional Analysis in Approximation Theory** MICCHELLI, Devidas V. Pai, Balmohan Vishnu Limaye, 1986  
*Subject Catalog* Library of Congress, *National Union Catalog*, 1982, 1983  
**L'Enseignement mathématique**, 1980 Vols for 1965 include a separately paged section  
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*Spectral Perturbation and Approximation with Numerical Experiments* Balmohan Vishnu Limaye, 1987  
**Reviews in Operator Theory, 1980-86**, 1989 *Choice*, 1982 *Notices of the American Mathematical Society*  
American Mathematical Society, 1988  
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Research Libraries,1987 Vols for 1975 include publications cataloged by the Research Libraries of the New York Public Library with additional entries from the Library of Congress MARC tapes      Gazette - Australian Mathematical Society  
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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Functional Analysis By Balmohan Vishnu Limaye** ," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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