



Linear Operator Theory in Engineering and Science

By Naylor, Arch W. / Sell, George R.

Book Condition: New. Publisher/Verlag: Springer, Berlin | A unique introduction to the theory of linear operators on Hilbert space. The author presents the basic facts of functional analysis in a form suitable for engineers, scientists, and applied mathematicians. Although the Definition-Theorem-Proof format of mathematics is used, careful attention is given to motivation of the material covered and many illustrative examples are presented. | This book is a unique introduction to the theory of linear operators on Hilbert space. The authors' goal is to present the basic facts of functional analysis in a form suitable for engineers, scientists, and applied mathematicians. Although the Definition-Theorem-Proof format of mathematics is used, careful attention is given to motivation of the material covered and many illustrative examples are presented. First published in 1971, Linear Operator in Engineering and Sciences has since proved to be a popular and very useful textbook. | 1 Introduction.- 1. Black Boxes.- 2. Structure of the Plane.- 3. Mathematical Modeling.- 4. The Axiomatic Method. The Process of Abstraction.- 5. Proofs of Theorems.- 2 Set-Theoretic Structure.- 1. Introduction.- 2. Basic Set Operations.- 3. Cartesian Products.- 4. Sets of Numbers.- 5. Equivalence Relations and Partitions.- 6. Functions.- 7. Inverses.- 8. Systems Types.- 3...



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