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A Functional Analysis Framework for Modeling, Estimation and Control in Science and Engineering

By H. T. Banks

Chapman and Hall/CRC. Hardcover. Book Condition: New.

Hardcover. 280 pages. Dimensions: 9.3in. x 6.3in. x 0.9in.

A Modern Framework Based on Time-Tested Material

A Functional Analysis Framework for Modeling, Estimation and

Control in Science and Engineering presents functional

analysis as a tool for understanding and treating distributed

parameter systems. Drawing on his extensive research and

teaching from the past 20 years, the author explains how

functional analysis can be the basis of modern partial

differential equation (PDE) and delay differential equation

(DDE) techniques. Recent Examples of Functional Analysis in

Biology, Electromagnetics, Materials, and Mechanics Through

numerous application examples, the book illustrates the role

that functional analysis a classical subject continues to play in

the rigorous formulation of modern applied areas. The text

covers common examples, such as thermal diffusion, transport

in tissue, and beam vibration, as well as less traditional ones,

including HIV models, uncertainty in noncooperative games,

structured population models, electromagnetics in materials,

delay systems, and PDEs in control and inverse problems. For

some applications, computational aspects are discussed since

many problems necessitate a numerical approach. This item

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