



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

*H.T. Banks*

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*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.



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