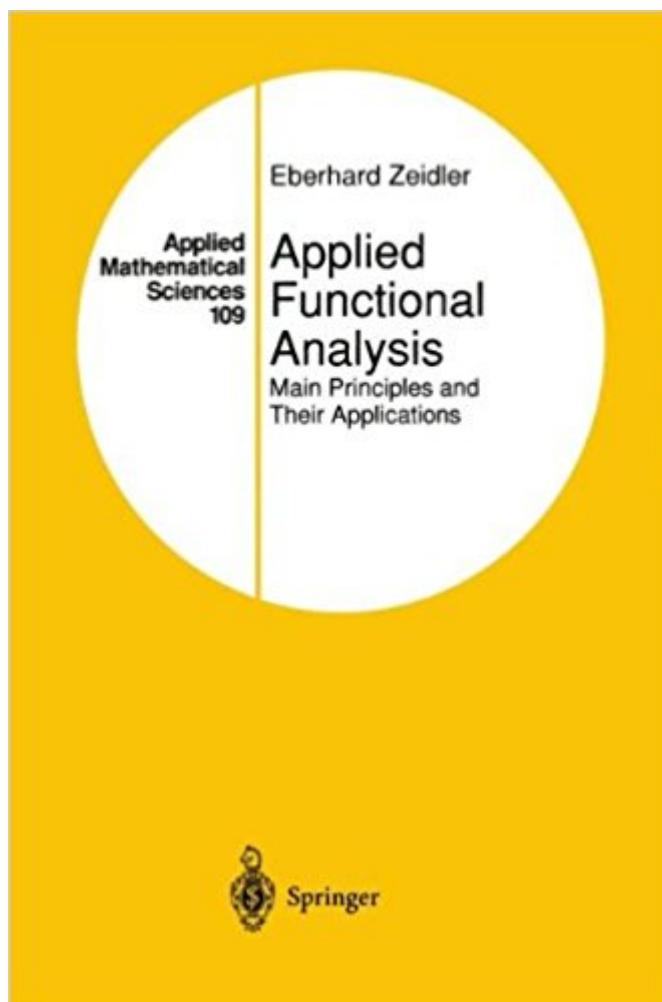


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Applied Functional Analysis: Main Principles And Their Applications (Applied Mathematical Sciences)



Synopsis

The second part of an elementary textbook which combines linear functional analysis, nonlinear functional analysis, and their substantial applications. The book addresses undergraduates and beginning graduates of mathematics, physics, and engineering who want to learn how functional analysis elegantly solves mathematical problems which relate to our real world and which play an important role in the history of mathematics. The book's approach is to attempt to determine the most important applications. These concern integral equations, differential equations, bifurcation theory, the moment problem, Chebyshev approximation, the optimal control of rockets, game theory, symmetries and conservation laws, the quark model, and gauge theory in elementary particle physics. The presentation is self-contained and requires only that readers be familiar with some basic facts of calculus.

Book Information

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This excellent volume is exactly what you need to get a fast connection between traditional abstract operator theory and other application-oriented branches of mathematics. It shows how apparently different topics are in fact closely related. For example: The Hahn-Banach theorem and separation of convex sets, and eventually the optimal control of rockets; or reflexive Banach spaces and obstacle problems in elasticity; or Fredholm operators and the Navier-Stokes equations. If you find this text suitable mostly for graduate students who are already acquainted with this kind of subjects and

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