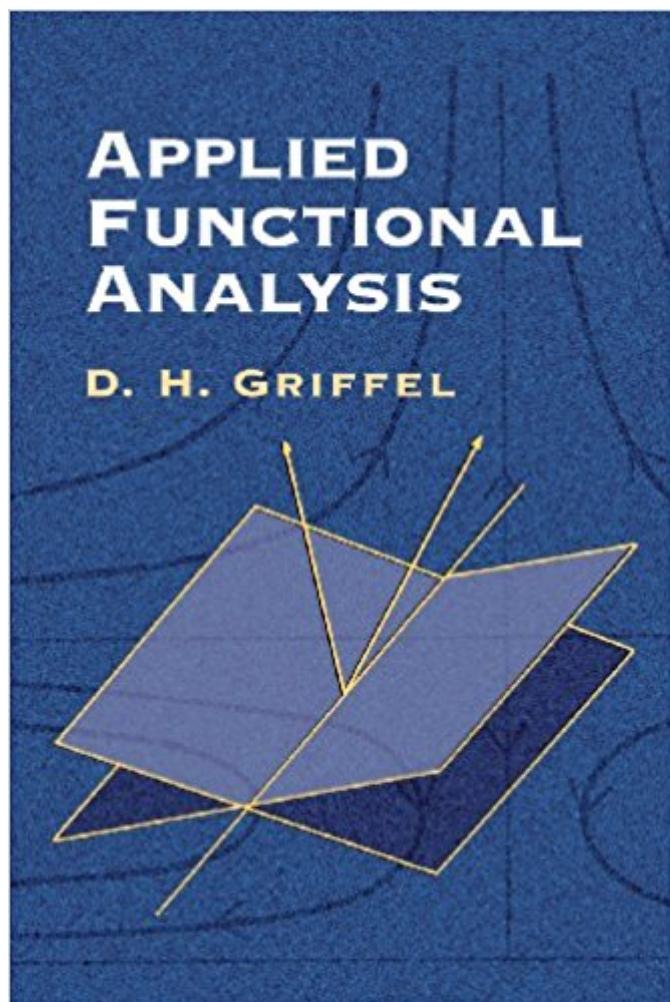


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Applied Functional Analysis (Dover Books On Mathematics)



Synopsis

A stimulating introductory text, this volume examines many important applications of functional analysis to mechanics, fluid mechanics, diffusive growth, and approximation. Detailed enough to impart a thorough understanding, the text is also sufficiently straightforward for those unfamiliar with abstract analysis. Its four-part treatment begins with distribution theory and discussions of Green's functions. Essentially independent of the preceding material, the second and third parts deal with Banach spaces, Hilbert space, spectral theory, and variational techniques. The final part outlines the ideas behind Frechet calculus, stability and bifurcation theory, and Sobolev spaces. 25 Figures. 9 Appendices. Supplementary Problems. Indexes.

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Customer Reviews

I don't know what all these people are trying to do by saying that this book is "the best book on functional analysis". It's not. I think if one is looking for a "Functional Analysis-Lite" kind of book, you could do better. If you want to learn about Banach and Hilbert spaces, other books would be more thorough and helpful, especially for physicists learning about it grad school having to grapple with it all the time. The book is divided into 4 parts, and I will discuss each part.I. Distribution Theory and Green's FunctionsII. Banach Spaces and Fixed Point TheoremsIII. Operators in Hilbert SpacesIV. Further DevelopmentsPART I: This is actually a bit more confusing and unclear than it needs to be. A lot of it could be done with more motivation. The actual chapter on Green's functions and PDEs is

pretty standard, more or less. I've seen Green's functions discussed better in books by Partial Differential Equations of Mathematical Physics and Integral Equations and also in Methods of Theoretical Physics, Part I. For PDEs and Green's functions solutions, I would recommend a book devoted to PDEs that also covers Fourier Transform methods - there are plenty. Part II: The chapter on Normed Spaces is not too bad. The discussion is helpful. It helps one understand only the very basics.

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