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Introduction To Hilbert Space And

The notion of a Hilbert space is a central idea in functional analysis and can be used in numerous branches of pure and applied mathematics. Dr. Young stresses these applications particularly for the solution of partial differential equations in mathematical physics and to the approximation of functions in complex analysis.

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It covers abstract vector spaces, inner product spaces, and - of course - the basics of Hilbert space theory and operators on Hilbert Space. The text is very well suited for beginners, with ample explanations and many exercises (most of them easy, but some are quite challenging for students having their first encounter with abstract mathematics).

Amazon.com: Introduction to Hilbert Space (2nd ed ...

This concise introductory treatment consists of three chapters: The Geometry of Hilbert Space, The Algebra of Operators, and The Analysis of Spectral Measures. Author Paul R. Halmos notes in the Preface that his motivation in writing this text was to make available to a wider audience the results of the third chapter, the so-called multiplicity ...

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Hilbert spaces provide a user-friendly framework for the study of a wide range of subjects, from Fourier Analysis to Quantum Mechanics. Ideas from linear algebra underlie much of what follows, so we begin with a brief review of linear (or vector) spaces.

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The subject matter of the first two chapters might be said to constitute an introduction to Hilbert space, and for these, an a priori knowledge of classic measure theory is not essential. Paul Richard Halmos (1916-2006) was a Hungarian-born American mathematician who made fundamental advances in the areas of probability theory, statistics ...

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Measurable Functions on Hilbert Space

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