

introduction to hilbert spaces pdf

The mathematical concept of a Hilbert space, named after David Hilbert, generalizes the notion of Euclidean space. It extends the methods of vector algebra and calculus from the two-dimensional Euclidean plane and three-dimensional space to spaces with any finite or infinite number of dimensions. A Hilbert space is an abstract vector space possessing the structure of an inner product that allows ...

Hilbert space - Wikipedia

Normed vector spaces. The basic and historically first class of spaces studied in functional analysis are complete normed vector spaces over the real or complex numbers. Such spaces are called Banach spaces. An important example is a Hilbert space, where the norm arises from an inner product. These spaces are of fundamental importance in many areas, including the mathematical formulation of ...

Functional analysis - Wikipedia

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This is a text on the rudiments of Functional Analysis in the normed and Banach space setting. The case of Hilbert space is not emphasized. (Here are some examples of books on Hilbert space that I've found useful: Paul Halmos - Introduction to Hilbert Space and the Theory of Spectral Multiplicity, J.R. Retherford - Hilbert Space: Compact Operators and the Trace Theorem, and J. Weidmann ...

Amazon.com: An Introduction to Banach Space Theory

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Juan Maldacena and Leonard Susskind arXiv:1306.0533v2 [hep

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