

# Applied analysis by the Hilbert space method - an introduction with applications to the wave, heat, and Schrödinger equations

**M. Dekker - Introduction to Hilbert Space and the Theory of Spectral Multiplicity: Second Edition**

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## Hilbert space

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## Hilbert Space Methods in Partial Differential Equations

The vector  $u$  is a suitable scalar multiple  $\lambda v$  of  $v$ . The general spectral theorem for self-adjoint operators involves a kind of operator-valued , rather than an infinite summation. } A real inner product space is defined in the same way, except that  $H$  is a real vector space and the inner product takes real values.

## APPLIED ANALYSIS BY THE HILBERT SPACE METHOD AN INTRODUCTION WITH APPLICATIONS TO THE WAVE HEAT AND SCHRI 1 2 DINGER EQUATIONS DOVER BOOKS ON MATHEMATICS

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The Hardy space  $H^2(D)$  also admits a reproducing kernel, known as the.



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