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Chapter 1 : Introduction to Hilbert Space and the Theory of Spectral Multiplicity by Paul R. Halmos

Paul Richard Halmos () was a Hungarian-born American mathematician who made fundamental advances in the areas of probability theory, statistics, operator theory, ergodic theory, and functional analysis (in particular, Hilbert spaces).

He obtained his B. He took only three years to obtain the degree, and was only 19 when he graduated. He then began a Ph. Doob supervised his dissertation, titled Invariants of Certain Stochastic Transformations: The Mathematical Theory of Gambling Systems. Six months later, he was working under John von Neumann , which proved a decisive experience. While at the Institute, Halmos wrote his first book, Finite Dimensional Vector Spaces, which immediately established his reputation as a fine expositor of mathematics. An elementary version of polyadic algebra is described in monadic Boolean algebra. In addition to his original contributions to mathematics, Halmos was an unusually clear and engaging expositor of university mathematics. He won the Lester R. Ford Award in [5] and again in shared with W. In the American Scientist 56 4: He discussed the division of the field into mathology and mathophysics, further arguing that mathematicians and painters think and work in related ways. He called the book "automathography" rather than "autobiography", because its focus is almost entirely on his life as a mathematician, not his personal life. Ask your own questions, look for your own examples, discover your own proofs. Is the hypothesis necessary? Is the converse true? What happens in the classical special case? What about the degenerate cases? Where does the proof use the hypothesis? What does it take to be [a mathematician]? I think I know the answer:

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Spectrum Analysis, Spectrochemistry, Mass Spectrometry Back cover copy This concise introductory treatment consists of three chapters: 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 theory. The theory as he presents it deals with arbitrary spectral measures, including the multiplicity theory of normal operators on a not necessarily separable Hilbert space. His explication covers, as another useful special case, the multiplicity theory of unitary representations of locally compact abelian groups. The distinguished mathematician E. Lorch praised the book in the Bulletin of the American Mathematical Society as "an exposition which is always fresh, proofs which are sophisticated, and a choice of subject matter which is certainly timely. The Geometry of Hilbert Space1. Inner Product and Norm5. The Inequalities of Bessel and Schwarz6. Examples of Hilbert Spaces Vectors in and out of Subspaces A Non-closed Vector Sum The Algebra of Operators Normal and Unitary Operators Products and Differences of Projections Infima and Suprema of Projections The Spectrum of an Operator The Spectrum of a Hermitian Operator Real and Complex Spectral Measures Description of the Spectral Subspaces Characterization of the Spectral Subspaces The Spectral Theorem for Hermitian Operators The Analysis of Spectral Measures The Problem of Unitary Equivalence Multiplicity Functions in Finite-dimensional Spaces Boolean Operations on Measures The Canonical Example of a Spectral Measure Simple Finite-dimensional Spectral Measures The Commutator of a Set of Projections The Existence of Rows The Power of a Maximal Orthogonal System The Multiplicity Function of a Spectral Measure Halmos Hungarian-born Paul R. Halmos is widely regarded as a top-notch expositor of mathematics. He taught at the University of Chicago and the University of Michigan as well as other universities and made significant contributions to several areas of mathematics, including mathematical logic, probability theory, ergodic theory, and functional analysis.

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