

Prove the following result: Let V be a finite-dimensional vector space, let v_1, v_2, \dots, v_n be vectors in V , and let $\{\phi_1, \phi_2, \dots, \phi_n\}$ be a basis for V' with the property that $\phi_j(v_i) = \delta_{ij}$ for all $i, j = 1, 2, \dots, n$. Prove that $\{v_1, v_2, \dots, v_n\}$ is a basis for V . Then find an explicit formula for writing an arbitrary $u \in V$ as a linear combination of v_1, v_2, \dots, v_n .

Finitedimensional Vector Spaces

Paul R. Halmos



Finitedimensional Vector Spaces:

Finite Dimensional Vector Spaces Paul R. Halmos, 1947-01-21 As a newly minted Ph D Paul Halmos came to the Institute for Advanced Study in 1938 even though he did not have a fellowship to study among the many giants of mathematics who had recently joined the faculty He eventually became John von Neumann's research assistant and it was one of von Neumann's inspiring lectures that spurred Halmos to write Finite Dimensional Vector Spaces The book brought him instant fame as an expositor of mathematics Finite Dimensional Vector Spaces combines algebra and geometry to discuss the three dimensional area where vectors can be plotted The book broke ground as the first formal introduction to linear algebra a branch of modern mathematics that studies vectors and vector spaces The book continues to exert its influence sixty years after publication as linear algebra is now widely used not only in mathematics but also in the natural and social sciences for studying such subjects as weather problems traffic flow electronic circuits and population genetics In 1983 Halmos received the coveted Steele Prize for exposition from the American Mathematical Society for his many graduate texts in mathematics dealing with finite dimensional vector spaces measure theory ergodic theory and Hilbert space

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In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Finitedimensional Vector Spaces**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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