Matrix Methods and Vector Spaces in Physics

Vinod K. Sharma

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Vector spaces constitute an algebraic system satisfying certain specific properties that are vital in the development of physical theories and these are central to modern mathematics and physics. They have wide applications in a number of subjects ranging from solid state physics, solid/ fluid mechanics to relativity and electromagnetics.

This well-written book gives, in an easy-to-read style, a stepby-step and comprehensive understanding about the various concepts, theories and applications of vector spaces, matrices and tensors. The book equips the reader with the fundamental knowledge in such subjects as matrix theory, linear algebraic equations, applications of eigenvalues and eigenvectors, diagonalisation process, quadratic forms, Cartesian tensors—and more.

KEY FEATURES
• Concepts illustrated with detailed examples, theorems and proofs to make the students comprehend the topics better.
• Over 270 worked-out Examples and over 249 section-end Problems.
• A large number of Exercises, with answers to most of them.

The book is primarily intended as a textbook for undergraduate students of Physics, Applied Physics (B.Sc.) and Electronics (B.Tech.). It would also be extremely useful for the postgraduate students of Physics, Applied Physics, Electronics and Applied Mathematics (M.Sc.). In addition, the book can be profitably used by researchers working in various research laboratories

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