



Vector Spaces and Matrices (Paperback)

By Robert Thrall, L. Tornheim

Dover Publications Inc., United States, 2011. Paperback. Condition: New. New edition. Language: English . Brand New Book. This text, designed for courses in linear algebra or for supplementary use by students in such courses, possesses the distinct advantage of approaching the subject simultaneously at two levels: the concrete and the axiomatic. Each new property of a vector space is discussed first at one level, then the other. Thus the student is introduced to the elegance and power of mathematical reasoning on the basis of a set of axioms; the gap is bridged between emphasis on problem-solving and the axiomatic approach of much of modern mathematical research; and the frequent return to concrete formulations helps keep the student's feet on solid ground. The text is designed to develop understanding and conceptual grasp, rather than mere manipulation. The early chapters supply a far more detailed exposition than found in many texts, important for the student having his first experience with mathematical rigor. Concepts of vector space, linear transformation, and matrix are presented, then applied to solution of systems of linear equations. A self-contained development of the theory of determinants is given; the student is introduced to the general concept of invariant;...



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