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Introduction to Linear Algebra and Differential Equations

By Mathematics

Dover Publications. Paperback. Book Condition: New. Paperback. 416 pages. Dimensions: 8.4in. x 5.3in. x 0.9in. Written for the undergraduate who has completed a year of calculus, this clear, skillfully organized text combines two important topics in modern mathematics in one comprehensive volume. As Professor Dettman (Oakland University, Rochester, Michigan) points out, Not only is linear algebra indispensable to the mathematics major, but . . . it is that part of algebra which is most useful in the application of mathematical analysis to other areas, e. g. linear programming, systems analysis, statistics, numerical analysis, combinatorics, and mathematical physics. The book progresses from familiar ideas to more complex and difficult concepts, with applications introduced along the way, to clarify or illustrate theoretical material. Among the topics covered are complex numbers, including two-dimensional vectors and functions of a complex variable; matrices and determinants; vector spaces; symmetric and hermitian matrices; first order nonlinear equations; linear differential equations; power-series methods; Laplace transforms; Bessel functions; systems of differential equations; and boundary value problems. To reinforce and expand each chapter, numerous worked-out examples are included. A unique pedagogical feature is the starred section at the end of each chapter. Although these sections are not essential to the sequence...



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