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Reviews

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HANDBOOK OF LINEAR ALGEBRA



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CRC/CBS Publishers & Didtributors, 2006. Hardcover. Book Condition: New. The Handbook of Linear Algebra provides comprehensive coverage of linear algebra concepts, applications, and computational software packages in an easy-to-use handbook format. The esteemed international contributors guide you from the very elementary aspects of the subject to the frontiers of current research. The book features an accessible layout of parts, chapters, and sections, with each section containing definition, fact, and example segments. The five main parts of the book encompass the fundamentals of linear algebra, combinatorial and numerical linear algebra, applications of linear algebra to various mathematical and nonmathematical disciplines, and software packages for linear algebra computations. Within each section, the facts (or theorems) are presented in a list format and include references for each fact to encourage further reading, while the examples illustrate both the definitions and the facts. Linearization often enables difficult problems to be estimated by more manageable linear ones, making the Handbook of Linear Algebra essential reading for professionals who deal with an assortment of mathematical problems. LINEAR ALGEBRA BASIC LINEAR ALGEBRA Vectors, Matrices and Systems of Linear Equations Linear Independence, Span, and Bases Linear Transformations Determinants and Eigenvalues Inner Product Spaces, Orthogonal Projection, Least Squares and Singular Value Decomposition MATRICES WITH SPECIAL PROPERTIES Canonical Forms Unitary Similarity, Normal Matrices and Spectral Theory Hermitian and Positive Definite Matrices Nonnegative and Stochastic Matrices Partitioned Matrices ADVANCED LINEAR ALGEBRA Functions of Matrices Quadratic, Bilinear and Sesquilinear Forms Multilinear Algebra Matrix Equalities and Inequalities Matrix Perturbation Theory Pseudospectra Singular Values and Singular Value Inequalities Numerical Range Matrix Stability and Inertia TOPICS IN ADVANCED LINEAR ALGEBRA Inverse Eigenvalue Problems Totally Positive and Totally Nonnegative Matrices Linear Preserver Problems Matrices over Integral Domains Similarity of Families of Matrices Max-Plus Algebra Matrices Leaving a Cone Invariant COMBINATORIAL MATRIX THEORY AND **GRAPHS MATRICES AND...**

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