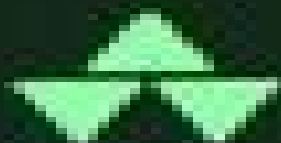


numerical algorithms: origins and applications

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Elementary Matrix Algebra Franz E. Hohn, 2013-02-19. This complete and coherent exposition, complemented by numerous illustrative examples, offers readers a text that can teach by itself. Fully rigorous in its treatment, it offers a mathematically sound sequencing of topics. The work starts with the most basic laws of matrix algebra and progresses to the sweep-out process for obtaining the complete solution of any given system of linear equations, homogeneous or nonhomogeneous, and the role of matrix algebra in the presentation of useful geometric ideas, techniques, and terminology. Other subjects include the complete treatment of the structure of the solution space of a system of linear equations, the most commonly used properties of determinants and linear operators, and linear transformations of coordinates. Considerably more material than can be offered in a one-semester course appears here. This comprehensive volume by Franz E. Hohn, Professor of Mathematics at the University of Illinois, for many years provides instructors with a wide range of choices in order to meet differing interests and to accommodate students with varying backgrounds.

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