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This text explores aspects of matrix theory that are most useful in developing and appraising computational methods for solving systems of linear equations and for finding characteristic roots. Suitable for advanced undergraduates and graduate students, it assumes an understanding of the general principles of matrix algebra, including the Cayley-Hamilton theorem, characteristic roots and vectors, and linear dependence. An introductory chapter covers the Lanczos algorithm, orthogonal polynomials, and determinantal identities. Succeeding chapters examine norms, bounds, and convergence; localization theorems and other inequalities; and methods of solving systems of linear equations. The final chapters illustrate the mathematical principles underlying linear equations and their interrelationships. Topics include methods of successive approximation, direct methods of inversion, normalization and reduction of the matrix, and proper values and vectors. Each chapter concludes with a helpful set of references and problems..

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June 6th, 2020 - indeed the reason for the importance of the numerical methods that are the main subject of this chapter is precisely that most equations that arise in real problems are quite intractable by analytical means so the puter is the only hope despite the above disclaimer in the next section we will study yet another important

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numerical linear algebra simple english the

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numerical linear algebra

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determinant what is the theory of matrices

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