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Introduction to Systems of Equations and  
Inequalities; 7.1 Systems of Linear

*Page 30/50*

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Equations: Two Variables; 7.2 Systems of  
Linear Equations: Three Variables; 7.3  
Systems of Nonlinear Equations and  
Inequalities: Two Variables; 7.4 Partial  
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matrices, and covers along the way such key topics as: systems of linear equations, linear operators and matrices, determinants, duality, and the spectral theory of operators on inner-product spaces. The last chapter offers a selection of additional topics indicating directions in which the core material can be applied.

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The Appendix provides all the relevant background material. Written for students with some mathematical maturity and an interest in abstraction and formal reasoning, the book is self-contained and is appropriate for an advanced undergraduate course in linear algebra.

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A text in linear algebra which is intended for a one-term course. It examines the relation between the geometry and the algebra underlying the subject. It features sections on linear equations, matrices and Gaussian elimination, vector spaces, linear maps, scalar products, determinants, and eigenvalues.



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physics, the treatment's only prerequisite is a first course in calculus. Proofs are given in detail, and carefully chosen problems demonstrate the variety of situations in which these concepts arise. After a brief Introduction, the text advances to chapters on the plane, linear dependence, span, dimension, bases, and subspaces.

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Subsequent chapters explore linear transformations, the dual space in terms of multilinear forms and determinants, a traditional treatment of determinants, and inner product spaces. Extensive Appendixes cover equations and identities; variables, quantifiers, and unknowns; sets; proofs; indices and summations; and

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