

Linear Algebra: An Introductory Approach (Undergraduate Texts in Mathematics)

By Charles W. Curtis

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This revised and updated fourth edition designed for upper division courses in linear algebra includes the basic results on vector spaces over fields, determinants, the theory of a single linear transformation, and inner product spaces. While it does not presuppose an earlier course, many connections between linear algebra and calculus are worked into the discussion. A special feature is the inclusion of sections devoted to applications of linear algebra, which can either be part of a course, or used for independent study, and new to this edition is a section on analytic methods in matrix theory, with applications to Markov chains in probability theory. Proofs of all the main theorems are included, and are presented on an equal footing with methods for solving numerical problems. Worked examples are integrated into almost every section, to bring out the meaning of the theorems, and illustrate techniques for solving problems. Many numerical exercises make use of all the ideas, and develop computational skills, while exercises of a theoretical nature provide opportunities for students to discover for themselves.

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Fourth Edition

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*"This book is an important addition to the literature of linear algebra. It would be a pleasure to use it for a one-semester or two-quarter course intended for serious (and talented) students. This book deserves to be as influential with the current generation of mathematics students as was Halmos' Finite-Dimensional Vector Spaces with this reviewer's generation, 45 years ago."?*MATHEMATICAL REVIEWS

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