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Linear algebra done right

This best-selling textbook for a second course in linear algebra is aimed at maths graduates and graduates. The novel approach used here banishes the determinants to the end of the book. The text focuses on the central goal of linear algebra: understanding the structure of linear operators on finite-dimensional vector spaces. The author has taken unusual care to motivate concepts and simplify proofs. A variety of interesting exercises in each chapter help students understand and manipulate the objects of linear algebra. The third edition contains significant improvements and revisions throughout the book. Since the last issue, more than 300 new exercises have been added. Many new examples have been added to illustrate the most important ideas of linear algebra. The book's new themes include product spaces, quotient spaces and dual spaces. Beautiful new formatting creates pages with an unusually pleasant appearance in both printed and electronic versions. No conditions other than the usual requirement for suitable mathematical maturity are assumed. Thus, the text begins with the discussion of vector spaces, linear independence, span, base and dimension. The book then deals with linear maps, intrinsically and self-vectors. Internal spaces are introduced, which lead to the finite spectral set and its consequences. Generalized self-vectors are then used to provide insight into the structure of a linear operator. -Preface for the Instructor Preface for Student Recognitions-1. Vector Spaces - 2. Finite-Dimensional Vector Spaces- 3. Linear Maps- 4. Polynomial Values, Self-Vectors and Invariant Subspaces- 6. Internal Product Spaces- 7. Operators on Inner Product Spaces- 8. Operators on Complex Vector Spaces- 9. Operators on Real Vector Spaces- 10. Trace and Determinant-Photo Credits-Symbol Index-Index. This is the third edition of this well-known introduction to linear algebra. The most important changes, apart from the usual improvements during a new edition, are the number of exercises that have more than doubled, new formatting including color printing, new sections on product spaces, quotient spaces, duality and the chapter on operators on real vector spaces If you liked the previous editions, you'll like this new edition even better! (G. Teschl, Monthly Issues for Mathematics, 2016) This third edition, published 18 years after the second edition, is another polish of the existing approach. This book was and is an interesting and useful text for a second course in linear algebra, which focuses on evidence after the concepts and mechanics were discussed in a first course. (Allen Stenger, MAA Reviews. maa.org, May 2016) MATHEMATICAL MONTHLYThe determinant-free proofs are elegant and intuitive. CHOICE Each discipline of higher mathematics testifies to the deep meaning of linear algebra in any way, either for the power derived from its techniques, or for the inspiration offered by its concepts. Is. Demotes determinants (usually a fairly central technique in the finite dimensional setting, albeit marginal in infinite dimensions) to a subordinate role. Consistently renouncing determinants is a tour de force in the service of simplicity and clarity; these are also well served by the general precision of Axler prose. Students are well served with regard to applied mathematics, analysis or operator theory. The most original linear algebra book that has been published for years certainly belongs in every bachelor's library. CENTRAL SHEET MATH Overall, the text is a didactic masterpiece. MATHEMATICAL REVIEWSClarity through examples is emphasized ... The text is ideal for class exercises ... I congratulate the author and the publisher on a well-produced textbook on linear algebra. From the Publisher This best-selling textbook for a second course in linear algebra is aimed at bachelor maths graduates and graduates. The novel approach used here banishes the determinants to the end of the book. The text focuses on the central goal of linear algebra: understanding the structure of linear operators on finite-dimensional vector spaces. The author has taken unusual care to motivate concepts and simplify proofs. A variety of interesting exercises in each chapter help students understand and manipulate the objects of linear algebra. No conditions other than the usual requirement for suitable mathematical maturity are assumed. Thus, the text begins with the discussion of vector spaces, linear independence, span, base and dimension. The book then deals with linear maps, intrinsically and self-vectors. Then inner product spaces are introduced, which lead to the finite spectral set and its consequences such as singular decomposition. Generalized self-vectors are then used to provide insight into the structure of a linear operator. Excerpts from Reviews Overall, the text is a didactic masterpiece. zbMATH Axler determinants (usually a fairly central technique in the finite dimensional setting, albeit marginally in infinite dimensions) to a subordinate role. Consistently renouncing determinants is a tour de force in the service of simplicity and clarity; these are also well served by the general precision of the Axler prose... The most original linear algebra book that has been published for years certainly belongs in every bachelor's library. Choice The determinant-free proofs are elegant and intuitive. American Mathematical Monthly Clarity by examples emphasizes... The text is ideal for class exercises... I congratulate the author and the publisher on a well-produced textbook on linear algebra. Mathematical reviews If you like the previous issues you will like this new edition even better! 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Don't just copy these solutions. My Favorite Linear Algebra TextbooksGood Linear Algebra Textbooks (Not Complete)Linear Algebra for Machine (Deep) LearningTable of Content This best-selling textbook for a second course in linear algebra is aimed at lower-level math majors and graduates. The novel approach used here banishes the determinants to the end of the book. The text focuses on the central goal of linear algebra: understanding the structure of linear operators on finite-dimensional vector spaces. The author has taken unusual care to motivate concepts and simplify proofs. A variety of interesting exercises in each chapter help students understand and manipulate the objects of linear algebra. The third edition contains significant improvements and revisions throughout the book. Since the last issue, more than 300 new exercises have been added. Many new examples have been added to illustrate the most important ideas of linear algebra. 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