

Advanced Linear Algebra (Textbooks in Mathematics)

By Hugo Woerdeman



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Advanced Linear Algebra features a student-friendly approach to the theory of linear algebra. The author's emphasis on vector spaces over general fields, with corresponding current applications, sets the book apart. He focuses on finite fields and-complex numbers, and discusses matrix algebra over these fields. The text then proceeds to cover vector spaces in depth. Also discussed are standard topics in linear algebra including linear transformations, Jordan canonical form, inner product spaces, spectral theory, and, as supplementary topics, dual spaces, quotient spaces, and tensor products.

Written in clear and concise language, the text sticks to the development of linear algebra without excessively addressing applications. A unique chapter on "How to Use Linear Algebra" is offered after the theory is presented. In addition, students are given pointers on how to start a research project. The proofs are clear and complete and the exercises are well designed. In addition, full solutions are included for almost all exercises.

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Advanced Linear Algebra (Textbooks in Mathematics) By Hugo Woerdeman Bibliography

- Sales Rank: #2788874 in Books
- Published on: 2015-12-17
- Original language: English
- Number of items: 1
- Dimensions: 9.50" h x 6.50" w x 1.00" l, .0 pounds
- Binding: Hardcover
- 349 pages

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