



# Linear Algebra with Applications

By Jeffrey Holt

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## Linear Algebra with Applications By Jeffrey Holt

Many students of linear algebra hit a wall at mid-semester. Having spent the first part of the term doing mostly computational work, they are unprepared for the rigors of conceptual thinking in an abstract setting that is frequently the focus of the second half of the course.

Holt's *Linear Algebra with Applications* blends computational and conceptual topics throughout. Early treatment of conceptual topics in the context of Euclidean space gives students more time, and a familiar setting, in which to absorb them. This organization also makes it possible to treat eigenvalues and eigenvectors earlier than in most texts. Abstract vector spaces are introduced later, once students have developed a solid conceptual foundation.

Concepts and topics are frequently accompanied by applications to provide context and motivation. Because many students learn by example, *Linear Algebra with Applications* provides a large number of representative examples, over and above those used to introduce topics. The text also has over 2500 exercises, covering computational and conceptual topics over a range of difficulty levels.

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## Linear Algebra with Applications By Jeffrey Holt Bibliography

- Sales Rank: #645120 in Books
- Published on: 2012-12-21
- Original language: English
- Number of items: 1
- Dimensions: 10.17" h x .89" w x 8.17" l, 2.35 pounds
- Binding: Hardcover
- 509 pages

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About the Author

JEFFREY HOLT, University of Virginia, USA.

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