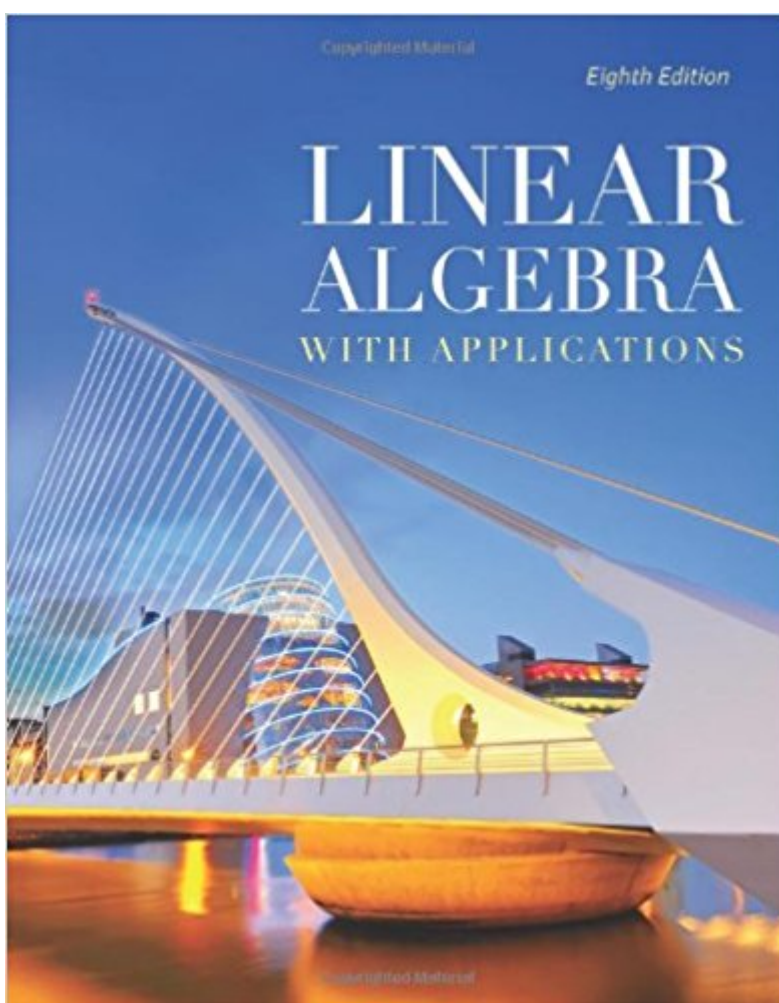


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# Linear Algebra With Applications (The Jones & Bartlett Learning Series In Mathematics)



## Synopsis

Updated and revised to increase clarity and further improve student learning, the Eighth Edition of Gareth Williams' classic text is designed for the introductory course in linear algebra. It provides a flexible blend of theory and engaging applications for students within engineering, science, mathematics, business management, and physics. It is organized into three parts that contain core and optional sections. There is then ample time for the instructor to select the material that gives the course the desired flavor. Part 1 introduces the basics, presenting systems of linear equations, vectors and subspaces of  $\mathbb{R}^n$ , matrices, linear transformations, determinants, and eigenvectors. Part 2 builds on the material presented in Part 1 and goes on to introduce the concepts of general vector spaces, discussing properties of bases, developing the rank/nullity theorem, and introducing spaces of matrices and functions. Part 3 completes the course with important ideas and methods of numerical linear algebra, such as ill-conditioning, pivoting, and LU decomposition. Throughout the text the author takes care to fully and clearly develop the mathematical concepts and provide modern applications to reinforce those concepts. The applications range from theoretical applications within differential equations and least square analysis, to practical applications in fields such as archeology, demography, electrical engineering and more. New exercises can be found throughout that tie back to the modern examples in the text. Key Features of the Eighth Edition:

- Updated and revised throughout with new section material and exercises.
- Each section begins with a motivating introduction, which ties material to the previously learned topics.
- Carefully explained examples illustrate key concepts throughout the text.
- Includes such new topics such as QR Factorization and Singular Value Decomposition.
- Includes new applications such as a Leslie Matrix model that is used to predict birth and death patterns of animals.
- Includes discussions of the role of linear algebra in many areas, such as the operation of the search engine Google and the global structure of the worldwide air transportation network.
- A MATLAB manual that ties into the regular course material is included as an appendix. These ideas can be implemented on any matrix algebra software package. This manual consists of 28 sections that tie into the regular course material.
- Graphing Calculator Manual included as an appendix.
- A Student Solutions Manual that contains solutions to selected exercises is available as a supplement. An Instructors Complete Solutions Manual, test bank, and PowerPoint Lecture Outlines are also available.
- Available with WebAssign Online Homework & Assessment

## Book Information

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## Customer Reviews

Brand new, still in the plastic wrap. Fast shipping and a great deal. Thanks so much!

It arrived in perfect condition, and the text itself is fairly easy to follow.

superb

It's not the greatest text in the world, but it was the one required by my Linear Algebra professor and it's doing the job well enough.

Thanks.

Very well organized and laid out linear algebra text book.

In the beginning of the text, the exercises at the end of each section do a good job at reflecting what was taught in the examples (many problems mimic them), but as you delve deeper in the book, this slowly starts to change. Overall the book is great and has plenty of explanation and pictures to go along with the concepts being taught.

This textbook is easy to follow, explain things in detail, make linear algebra a breeze, i do highly

recommend it to anyone

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