



# Linear Algebra

By Jin Ho Kwak, Sungpyo Hong

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**Linear Algebra** By Jin Ho Kwak, Sungpyo Hong

Presents the basic concepts of linear algebra as a coherent part of mathematics.

This new edition includes substantial revisions, new material on minimal polynomials and diagonalization, as well as a variety of new applications.

Rich selection of examples and explanations, as well as a wide range of exercises at the end of every section.

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## **Linear Algebra By Jin Ho Kwak, Sungpyo Hong Bibliography**

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## **Editorial Review**

### Review

This is a clean and elegant presentation for a thorough first course in Linear Algebra from the view of pure mathematics. The text is rich in examples and explanations, as well as numerous exercises. Proofs of almost all results are given. There are a number of concrete applications which will make the text useful for students from other disciplines such as economics, engineering, physics, and computer science.

Major Topics Include: Linear Equations and Matrices.- Determinants.- Vector Spaces.- Linear Transformations.- Inner Product Spaces.- Eigenvectors and Eigenvalues.- Complex Vector Spaces.- Canonical Forms.- Quadratic Forms.- Index -- *Book Descripition*

### From the Back Cover

"A logical development of the subject...all the important theorems and results are discussed in terms of simple worked examples. The student's understanding...is tested by problems at the end of each subsection, and every chapter ends with exercises."

--- "Current Science" (Review of the First Edition)

A cornerstone of undergraduate mathematics, science, and engineering, this clear and rigorous presentation of the fundamentals of linear algebra is unique in its emphasis and integration of computational skills and mathematical abstractions. The power and utility of this beautiful subject is demonstrated, in particular, in its focus on linear recurrence, difference and differential equations that affect applications in physics, computer science, and economics.

### Key topics and features include:

\* Linear equations, matrices, determinants, vector spaces, complex vector spaces, inner products, Jordan canonical forms, and quadratic forms

\* Rich selection of examples and explanations, as well as a wide range of exercises at the end of every section

\* Selected answers and hints

This second edition includes substantial revisions, new material on minimal polynomials and diagonalization, as well as a variety of new applications. The text will serve theoretical and applied courses and is ideal for self-study. With its important approach to linear algebra as a coherent part of mathematics and as a vital component of the natural and social sciences, "Linear Algebra, Second Edition" will challenge and benefit a broad audience.

## **Users Review**

### **From reader reviews:**

**Matthew Dealba:**

This Linear Algebra book is absolutely not ordinary book, you have after that it the world is in your hands. The benefit you will get by reading this book is actually information inside this e-book incredible fresh, you will get information which is getting deeper anyone read a lot of information you will get. This specific Linear Algebra without we recognize teach the one who studying it become critical in considering and analyzing. Don't always be worry Linear Algebra can bring when you are and not make your carrier space or bookshelves' become full because you can have it in your lovely laptop even telephone. This Linear Algebra having very good arrangement in word in addition to layout, so you will not experience uninterested in reading.

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