

# Linear Algebra



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This revised and updated fourth edition designed for upper division courses in linear algebra includes the basic results on vector spaces over fields, determinants, the theory of a single linear transformation, and inner product spaces. While it does not presuppose an earlier course, many connections between linear algebra and calculus are worked into the discussion. A special feature is the inclusion of sections devoted to applications of linear algebra, which can either be part of a course, or used for independent study, and new to this edition is a section on analytic methods in matrix theory, with applications to Markov chains in probability theory. Proofs of all the main theorems are included, and are presented on an equal footing with methods for solving numerical problems. Worked examples are integrated into almost every section, to bring out the meaning of the theorems, and illustrate techniques for solving problems. Many numerical exercises make use of all the ideas, and develop computational skills, while exercises of a theoretical nature provide opportunities for students to discover for themselves.

作者介绍:

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## 标签

UTM

Mathematics

Linear

Algebra

计算机科学

美國

线性代数

線性代數

## 评论

<http://ishare.iask.sina.com.cn/f/8813629.html>

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这本教材虽然标题是“入门”，但自觉难度在入门之上。这本书以理论开道，例子很少。在没有线代基础，和大学数学课程的基础（即学习使用数学证明），我艰难地啃完这本书；然后我决定使用 David C. Lay（G. Strang亦可）的教材。我查了查现在一些大学的课表，这本书大概是用于线代里的第二门或第三门课，而非第一门入门课。

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书评

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