PROBLEMS IN LINEAR ALGEBRA AND MATRIX THEORY

By
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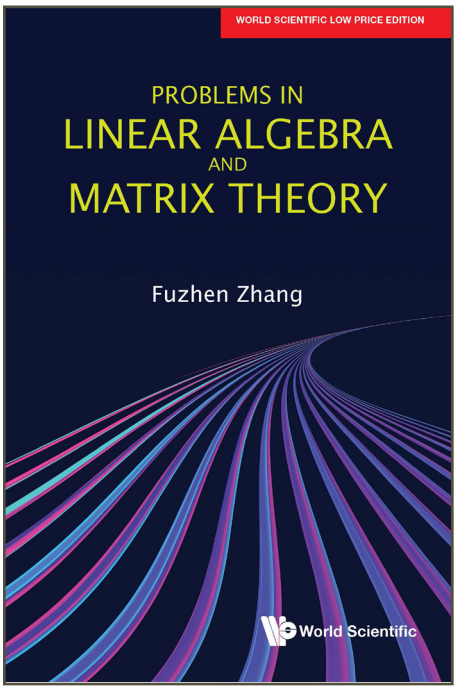

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ABOUT THE BOOK

This is the revised and expanded edition of the problem book *Linear Algebra: Challenging Problems for Students,* now entitled *Problems in Linear Algebra and Matrix Theory*. This new edition contains about fifty-five examples and many new problems, based on the author's lecture notes of *Advanced Linear Algebra* classes at Nova Southeastern University (NSU-Florida) and short lectures *Matrix* Gems at Shanghai University and Beijing Normal University.

The book is intended for upper division undergraduate and beginning graduate students, and it can be used as text or supplement for a second course in linear algebra. Each chapter starts with Definitions, Facts, and Examples, followed by problems. Hints and solutions to all problems are also provided.

READERSHIP

College/university students and instructors in mathematics, physics, statistics, computer science, etc. Upper division/beginning graduate level.

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- Determinants, Inverses, Ranks, and Systems of Linear Equations
- Similarity, Eigenvalues, Matrix Decompositions, and Linear Transformations
- Special Matrices
- Inner Product Spaces
- Miscellaneous Problems
- Hints and Answers for Chapter 1 to Chapter 6

REVIEWS

"Mathematics is not a spectator sport. Actively working on well-chosen problems is the best way to understand and master any area of mathematics. Students at all levels will benefit from putting pencil to paper and solving Professor Zhang's linear algebra & matrix problems."

Roger Horn
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"This is a large collection of good problems of varied levels of difficulty. They offer readers many opportunities for thinking of clever ways to apply classic theorems."

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