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MATLAB Linear Algebra

Cesar Perez Lopez

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MATLAB is a high-level language and environment for numerical computation, visualization, and programming. Using MATLAB, you can analyze data, develop algorithms, and create models and applications. The language, tools, and built-in math functions enable you to explore multiple approaches and reach a solution faster than with spreadsheets or traditional programming languages, such as C/C++ or Java.

MATLAB Linear Algebra introduces you to the MATLAB language with practical hands-on instructions and results, allowing you to quickly achieve your goals. In addition to giving an introduction to the MATLAB environment and MATLAB programming, this book provides all the material needed to work in linear algebra with ease. In addition to exploring MATLAB’s matrix algebra capabilities, it describes the MATLAB commands that are used to create two- and three-dimensional graphics, including explicit, implicit and parametric curve and surface plotting, and various methods of data representation. Methods for solving systems of equations are detailed.

What you’ll learn

• How to use the MATLAB environment to solve linear algebraic problems

- Vector and Vector Space basics
- How to use MATLAB for linear algebra problems, including techniques for matrix decomposition
- Basic matrix manipulation functions in MATLAB

Who this book is for

This book is for anyone who wants to work in a practical, hands-on manner with MATLAB in a linear algebra context. You'll already have a core understanding of undergraduate level linear algebra, and have access to an installed version of MATLAB, but no previous experience of MATLAB is assumed.

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1. Introducing MATLAB for Linear Algebra

2. MATLAB Variables, Operators and Functions

3. Curves in Explicit, Parametric and Polar Coordinates

4. Algebraic Expressions, Polynomials, Equations and Systems

5. Matrices, Vector Spaces, and Linear Applications

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