



Numerical Methods: Using MATLAB

By George Lindfield, John Penny

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Numerical Methods using MATLAB, 3e, is an extensive reference offering hundreds of useful and important numerical algorithms that can be implemented into MATLAB for a graphical interpretation to help researchers analyze a particular outcome. Many worked examples are given together with exercises and solutions to illustrate how numerical methods can be used to study problems that have applications in the biosciences, chaos, optimization, engineering and science across the board.

- Over 500 numerical algorithms, their fundamental principles, and applications
- Graphs are used extensively to clarify the complexity of problems
- Includes coded genetic algorithms
- Includes the Lagrange multiplier method
- User-friendly and written in a conversational style

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Editorial Review

From the Back Cover

Covering all the major aspects of numerical methods, this book includes many examples and problems with solutions in MATLAB. Illustrates all the graphics facilities of MATLAB. Provides advanced case studies demonstrating the wide applications of MATLAB. For mathematicians interested in an overview of the applications of MATLAB.

About the Author

George Lindfield is a former lecturer in Mathematics and Computing at the School of Engineering and Applied Science, Aston University in the United Kingdom.

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