



Numerical Methods for Engineers and Scientists: An Introduction with Applications Using MATLAB

By Amos Gilat, Vish Subramaniam

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Following a unique approach, this innovative book integrates the learning of numerical methods with practicing computer programming and using software tools in applications. It covers the fundamentals while emphasizing the most essential methods throughout the pages. Readers are also given the opportunity to enhance their programming skills using MATLAB to implement algorithms. They'll discover how to use this tool to solve problems in science and engineering.

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Editorial Review

From the Back Cover

A clear and concise guide to numerical methods and their application

Mastering numerical methods has never been easier than with Gilat/Subramaniam's *Numerical Methods For Engineers and Scientists: An Introduction with Applications Using MATLAB*. Uniquely accessible and concise, this book takes an innovative approach that integrates the study of numerical methods with hands-on programming practice using the popular MATLAB environment to solve realistic problems in engineering and science.

Ideal for both students and professionals who would like to become more adept at numerical methods, *Numerical Methods For Engineers and Scientists* familiarizes you with:

- The mathematical background and fundamentals of numerical methods
- Solving nonlinear equations
- Solving a system of linear equations
- Eigenvalues and Eigenvectors
- Function approximation, curve fitting, and interpolation
- Differentiation
- Integration
- First-order and higher-order ODEs
- Initial and boundary value problems

Using MATLAB's built-in functions as tools for solving problems, you will practice applying numerical methods for analysis of real-world problems. All the information is presented in manageable, step-by-step fashion, supported by a large number of annotated examples and end-of-chapter problems.

Lucid, carefully structured, and flexibly designed to fulfill a wide range of academic and practical needs, this book will help you develop the skills in numerical methods that will serve you well as a practicing engineer.

About the Author

Amos Gilat, Ph.D., is Professor of Mechanical Engineering at The Ohio State University. Dr. Gilat's main research interests are in plasticity, specifically, in developing experimental techniques for testing materials over a wide range of strain rates and temperatures and in investigating constitutive relations for viscoplasticity. Dr. Gilat's research has been supported by the National Science Foundation, NASA, Department of Energy, Department of Defense, and various industries.

Vish Subramaniam, Ph.D., is Professor of Mechanical Engineering & Chemical Physics at The Ohio State University. Dr. Subramaniam's main research interests are in plasma and laser physics and processes, particularly those that involve non-equilibrium phenomena. Dr. Subramaniam's research is both experimental and computational, and has been supported by the Department of Defense, National Science Foundation, and numerous industries.

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