

# Mathematical Methods for Scientists and Engineers

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This book is a basic treatment of the mathematical methods used to analyze linear and nonlinear systems. The material on linear systems includes basic matrix theory, gamma and related functions, methods for the evaluation of integrals, and linear differential equations. The section on nonlinear methods begins with an analysis of simple harmonic oscillators, and continues with analysis of conservative and nonconservative systems, analytical techniques to obtain approximate solutions to nonlinear problems. The book with a discussion of nonlinear difference equations and chaotic behavior.