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Using R For Numerical Analysis In Science And Engineering (Chapman & Hall/CRC The R Series)



Synopsis

Instead of presenting the standard theoretical treatments that underlie the various numerical methods used by scientists and engineers, *Using R for Numerical Analysis in Science and Engineering* shows how to use R and its add-on packages to obtain numerical solutions to the complex mathematical problems commonly faced by scientists and engineers. This practical guide to the capabilities of R demonstrates Monte Carlo, stochastic, deterministic, and other numerical methods through an abundance of worked examples and code, covering the solution of systems of linear algebraic equations and nonlinear equations as well as ordinary differential equations and partial differential equations. It not only shows how to use R's powerful graphic tools to construct the types of plots most useful in scientific and engineering work, but also:Explains how to statistically analyze and fit data to linear and nonlinear modelsExplores numerical differentiation, integration, and optimizationDescribes how to find eigenvalues and eigenfunctionsDiscusses interpolation and curve fittingConsiders the analysis of time seriesUsing R for Numerical Analysis in Science and Engineering provides a solid introduction to the most useful numerical methods for scientific and engineering data analysis using R.

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Customer Reviews

Great!

R is a vast project, and sometimes it can be overwhelming; particularly if you are dealing with certain CRAN Task-Views, such as Numerical Mathematics. Nonetheless, this book is a life saver. It introduces reader in to R's Numerical-Analysis capabilities, from the very basic concepts to highly developed topics. The book is based on examples developed by the author himself and examples coming from specific Vignettes. Chapters 5, 7 and 11 are particularly good for those interested in Optimization, Inverse Modelling, and Systems of Non-linear Equations. 100% recommended. Congratulations to the author.

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