



Nonlinear Parameter Optimization Using R Tools

John C. Nash

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Nonlinear Parameter Optimization Using R

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A systematic and comprehensive treatment of optimization software using R

In recent decades, optimization techniques have been streamlined by computational and artificial intelligence methods to analyze more variables, especially under non-linear, multivariable conditions, more quickly than ever before.

Optimization is an important tool for decision science and for the analysis of physical systems used in engineering. Nonlinear Parameter Optimization with R explores the principal tools available in R for function minimization, optimization, and nonlinear parameter determination and features numerous examples throughout.

Nonlinear Parameter Optimization with R:

- Provides a comprehensive treatment of optimization techniques
- Examines optimization problems that arise in statistics and how to solve them using R
- Enables researchers and practitioners to solve parameter determination problems
- Presents traditional methods as well as recent developments in R
- Is supported by an accompanying website featuring R code, examples and datasets

Researchers and practitioners who have to solve parameter determination problems who are users of R but are novices in the field optimization or function minimization will benefit from this book. It will also be useful for scientists building and estimating nonlinear models in various fields such as hydrology, sports forecasting, ecology, chemical engineering, pharmaco-kinetics, agriculture, economics and statistics.

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