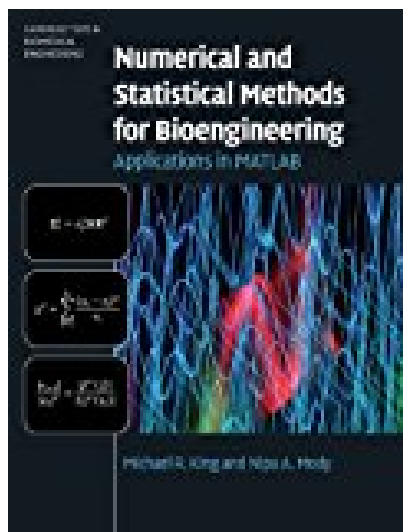


Numerical and Statistical Methods for Bioengineering Applications in MATLAB Cambridge Texts in Biomedical Engineering



BOOK DETAILS

- Author : Michael R. King
- Pages : 594 Pages
- Publisher : Cambridge University Press
- Language : English
- ISBN : 0521871581

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BOOK SYNOPSIS

The first MATLAB-based numerical methods textbook for bioengineers that uniquely integrates modelling concepts with statistical analysis, while maintaining a focus on enabling the user to report the error or uncertainty in their result. Between traditional numerical method topics of linear modelling concepts, nonlinear root finding, and numerical integration, chapters on hypothesis testing, data regression and probability are interweaved. A unique feature of the book is the inclusion of examples from clinical trials and bioinformatics, which are not found in other numerical methods textbooks for engineers. With a wealth of biomedical engineering examples, case studies on topical biomedical research, and the inclusion of end of chapter problems, this is a perfect core text for a one-semester undergraduate course.

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