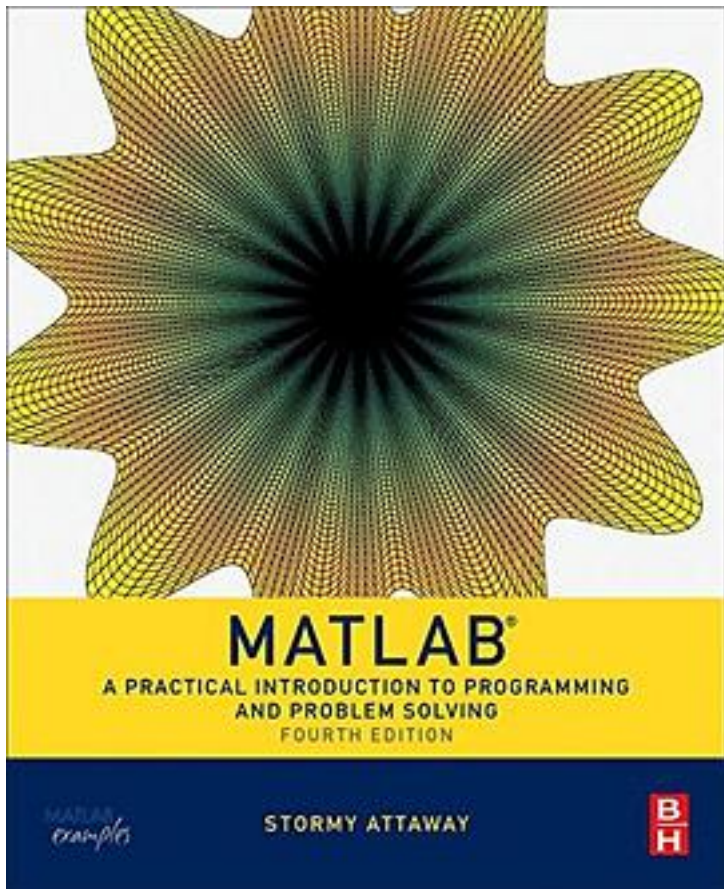# Matlab: A Practical Introduction to Programming and Problem Solving

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MATLAB: A Practical Introduction to Programming and Problem Solving, Fourth Edition, has been updated to reflect the functionality of the current version of MATLAB, including the new H2 Graphics system. It features new and revised end-of-chapter

exercises, more engineering applications to help the reader learn this software tool in context, and a new section on object-oriented programming in MATLAB. MATLAB has become the standard software tool for solving scientific and engineering problems due to its powerful built-in functions and its ability to program.

Assuming no knowledge of programming, this book guides the reader both programming and built-in functions to easily exploit MATLAB's extensive capabilities for tackling engineering problems. The book starts with programming concepts, such as variables, assignments, and selection statements, moves on to loops, and then solves problems using both the programming concept and the power of MATLAB. In-depth coverage is given to input/output, a topic fundamental to many engineering applications.

Presents programming concepts and MATLAB built-in functions side-by-side

Offers a systematic, step-by-step approach, building on concepts throughout the book and facilitating easier learning

Includes sections on common pitfalls and programming guidelines to direct students toward best practices

Combines basic programming concepts, built-in functions, and advanced topics for problem solving with MATLAB to make this book uniquely suitable for a wide range of courses teaching or using MATLAB across the curriculum

作者介绍:

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标签

matlab

programming

atm

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评论

Used previous editions' free pdf to teach undergrad modeling classes. Better than most of its topical-equivalencies.

A beginners' book for matlab, more readable than matlab documentation and the primer book. Highlighted chapters are OOP, advanced plotting, especially maths chatper involving LA, statistics, fitting, differentiation at a introductory level. P.S: For more mathmatical implementation in matlab, check numerical computing with matlab.

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书评

A very popular MATLAB book on Amazon. I did finish all the book, only the first 8 chapters. I left the advanced topics for future reading, since I might only need part of them. It is more efficient to learn them with the clear demand on mind. The book is …

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