MATLAB For Dummies

By Jim Sizemore, John Paul Mueller

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Plot graphs, solve equations, and write code in a flash!

If you work in a STEM field, chances are you'll be using MATLAB on a daily basis. MATLAB is a popular and powerful computational tool and this book provides everything you need to start manipulating and plotting your data. MATLAB has rapidly become the premier data tool, and *MATLAB For Dummies* is a comprehensive guide to the fundamentals. *MATLAB For Dummies* guides you through this complex computational language from installation to visualization to automation.

- Learn MATLAB's language fundamentals including syntax, operators, and data types
- Understand how to use the most important window in MATLAB – the Command Window
- Get the basics of linear algebra to get up and running with vectors, matrices, and hyperspace
- Automate your work with programming scripts and functions
- Plot graphs in 2D and 3D to visualize your data
- Includes a handy guide for MATLAB's functions and plotting routines

MATLAB is an essential part of the analysis arsenal and *MATLAB For Dummies* provides clear, thorough guidance to get the most out of your data.

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Editorial Review

From the Back Cover

Learn to:

- Work with this high-level language and problem-solving environment
- Use MATLAB to analyze data, develop algorithms, and create models
- Develop numerical computations and plots
- Automate your work with scripts

A complete and easy-to-use guide to the popular MATLAB software tool

If you're working in a STEM field, chances are you need to know MATLAB. Get up and running with MATLAB in a flash with this comprehensive, yet easy-to-use guide to one of the most popular computational tools on the market! Explore the software's functionality and navigation as well as its extensive math functions, find out how to use advanced features, and much more!

- Dive right in — find out the basics of MATLAB, important knowledge on how to use it, and how to interact with this popular tool
- Manipulate data — get into the meat and potatoes of MATLAB by working with vectors, matrices, and higher dimensions
- Get streamlined — automate your work with scripts, expand on MATLAB's built-in functions, and dive into conditional statements
- The sum of its parts — discover the practical parts of MATLAB, including details on saving, importing, exporting, printing, and publishing
- MATLAB applications — explore the specific MATLAB applications, solve equations and find roots, and get into linear algebra, calculus, and more
- Displaying the results — use MATLAB's extensive collection of plots to see the results of your computations and present them in reports that communicate your ideas to others

Open the book and find:

- How MATLAB is used in STEM fields
- What you need to get started using MATLAB
- How to work with math syntax and MATLAB
- Tricks to starting, storing, and saving files
- Details on plotting data with 2D and 3D data
- Tips on automating your work in MATLAB
- Everything you need to know about control structures
- How to recover from the most common mistakes

About the Author

Jim Sizemore is Professor of Physics and Engineering at Tyler Junior College. For over 25 years he's worked in the semiconductor and software industries as a process engineer, device physicist, and software developer and has been teaching college physics, engineering, and math for the last 13 years. **John Paul**

Mueller is a freelance author and a technical editor for both *Data Based Advisor* and *Coast Compute* magazines. He has produced 96 books and more than 300 articles to date and has been following MATLAB development for nearly a decade.

Users Review

From reader reviews:

Robert Zamora:

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