



MATLAB Primer, Eighth Edition

By Timothy A. Davis

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Highlighting the new aspects of MATLAB® 7.10 and expanding on many existing features, **MATLAB® Primer, Eighth Edition** shows you how to solve problems in science, engineering, and mathematics. Now in its eighth edition, this popular primer continues to offer a hands-on, step-by-step introduction to using the powerful tools of MATLAB.

New to the Eighth Edition

- A new chapter on object-oriented programming
- Discussion of the MATLAB File Exchange window, which provides direct access to over 10,000 submissions by MATLAB users
- Major changes to the MATLAB Editor, such as code folding and the integration of the Code Analyzer (M-Lint) into the Editor
- Explanation of more powerful Help tools, such as quick help popups for functions via the Function Browser
- The new *bsxfun* function
- A synopsis of each of the *MATLAB Top 500* most frequently used functions, operators, and special characters
- The addition of several useful features, including sets, logical indexing, *isequal*, *repmat*, *reshape*, *varargin*, and *varargout*

The book takes you through a series of simple examples that become progressively more complex. Starting with the core components of the MATLAB desktop, it demonstrates how to handle basic matrix operations and expressions in MATLAB. The text then introduces commonly used functions and explains how to write your own functions, before covering advanced features, such as object-oriented programming, calling other languages from MATLAB, and MATLAB graphics. It also presents an in-depth look at the Symbolic Toolbox,

which solves problems analytically rather than numerically.

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Editorial Review

Review

This primer is a useful little booklet. It presents language features in a progressive manner, with the easy things first and more sophisticated features built onto these. ... it also serves as a reference work and is a useful supplement to the online help that comes with MATLAB itself. ... The presentation throughout is clear and concise, with the text enlivened by illustrative examples where appropriate. Altogether, the book is a complete course in MATLAB, including a careful introduction to object-oriented programming and other advanced and powerful features. I highly recommend this book to MATLAB users at all levels of expertise.

?J.C. Butcher, *Computing Reviews*, October 2011

After many years away from MATLAB, I am now picking it up again to do some research in signal processing strategies for cochlear implants. As I got into it, I realized that I had forgotten enough of the details as to be pretty useless so I got this book and started from scratch. I love this book! Extremely well written. I especially like the examples that the author intentionally 'botched' in order to make teaching points.

?J. Mark Elder, M.D., Ph.D., Aztek Networks, Inc, Boulder, Colorado, USA

About the Author

Timothy A. Davis is a professor in the Department of Computer & Information Science & Engineering at the University of Florida. A member of ACM, SIAM, IEEE, IEEE Computer Society, SIAM-SC, SIAM-OPT, and SIAM-CSE, Dr. Davis is an associate editor of both *ACM Transactions on Mathematical Software* and *Computational Optimization and Applications*.

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Carolyn Rodriguez:

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