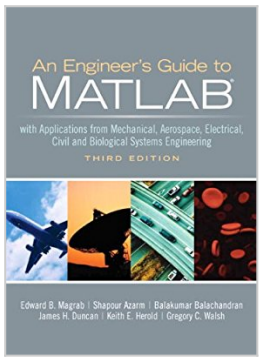

An Engineers Guide to MATLAB (3rd Edition)

By Edward B. Magrab, Shapour Azarm, Balakumar Balachandran, James Duncan, Keith Herold, Gregory Walsh

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An Engineer's Guide to MATLAB, 3/e, is an authoritative guide to generating readable, compact, and verifiably correct MATLAB programs. It is ideal for undergraduate engineering courses in Mechanical, Aeronautical, Civil, and Electrical engineering that require/use MATLAB.

This highly respected guide helps students develop a strong working knowledge of MATLAB that can be used to solve a wide range of engineering problems. Since solving these problems usually involves writing relatively short, one-time-use programs, the authors demonstrate how to effectively develop programs that are compact yet readable, easy to debug, and quick to execute. Emphasis is on using MATLAB to obtain solutions to several classes of engineering problems, so technical material is presented in summary form only.

The new edition has been thoroughly revised and tested for software release 2009.

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Editorial Review

Review
“The best features of this text are certainly the examples. The combination of the worked examples from the first seven chapters with the detailed material from the applications chapters makes for an applied MATLAB text that is truly unmatched in scope or detail. Together with the easily navigated List of Examples, I challenge a mechanical engineer working in any field to read the text without finding an application that becomes part of their default toolbox, let alone one that simply interests them.” — Adam Ufford, Texas Tech

“I think that this book provides one of the most comprehensive guides to MATLAB for engineering students. One of the major strengths of the book is the wealth of worked-out examples and exercises at the end of every single chapter.” — Luca Lucchese, Oregon State University

“I think that the book is well written and is accessible to both beginners and experienced users alike. The large number of worked-out examples and the clarity of their presentation are certainly among the best features of the book.” — Luca Lucchese, Oregon State University

“The exercises are very good and very relevant. They complement the examples well, making the combination very nice, and a step above other texts in this area.” — David Chopp, Northwestern University

“The authors do a great job in presenting the material in a readable and understandable fashion. They have good examples and good problems. They also do a great job of logically introducing MATLAB functionality and sequentially building on previous concepts. Very good material!” — William Arrasmith, Florida Institute of Technology

“The authors do a great job of integrating nuances of Matlab into their examples. It is also nice to have so many examples supported with the basic theory. It is also good that the authors are attempting a multi-disciplinary (Aeronautical, Mechanical, Electrical, and Civil Engineering) approach.” — William Arrasmith, Florida Institute of Technology

“In this book, you can find numerous programs and examples in a wide range of engineering such as Machine Design, Vibrations, Control Systems, Dynamics, Fluid Mechanics, Heat Transfer, Statistics and Optimization. Those examples are very useful and easy to follow. Good examples in all kinds of engineering fields are one of the reasons that I am in favor of the books among all kinds of MATLAB textbooks.” — Jenny Zhou, Lamar University

“I think this is a very good text book and reference for a mechanical engineering student. It is well written, easy to comprehend. The examples in the book are extremely useful to solve a wide range of engineering problems.” — Jenny Zhou, Lamar University

“To program MATLAB well, one must understand vectorization and user-defined functions. This book stands out in giving well-written, understandable examples.” — Brad Burchett, Rose-Hulman Institute of Technology

“The quality of the worked examples is truly unique to this textbook. The examples in Chapters 1-7 are stimulating in their content, but simple enough so that the complexity of the application does not intimidate

or take away from the educational content. This is often a hard balance to find, but this text succeeds." — Adam Ufford, Texas Tech

"The quality of the problems surpasses that of any other text. The problems reinforce and test all of the necessary content, but provide a stimulating opportunity to "go beyond" the typical canned responses and apply skills to "real-world" problems." — Adam Ufford, Texas Tech

From the Back Cover
"An Engineer's Guide to MATLAB, 3/e, " is an authoritative guide to generating readable, compact, and verifiably correct MATLAB programs. It is ideal for undergraduate engineering courses in Mechanical, Aeronautical, Civil, and Electrical engineering that require/use MATLAB. This highly respected guide helps students develop a strong working knowledge of MATLAB that can be used to solve a wide range of engineering problems. Since solving these problems usually involves writing relatively short, one-time-use programs, the authors demonstrate how to effectively develop programs that are compact yet readable, easy to debug, and quick to execute. Emphasis is on using MATLAB to obtain solutions to several classes of engineering problems, so technical material is presented in summary form only. The new edition has been thoroughly revised and tested for software release 2009.

About the Author

Dr. Magrab is Emeritus Professor of Mechanical Engineering at the University of Maryland, College Park, Maryland. His research interests include the integration of design and manufacturing, vibrations and acoustics, and the theoretical and experimental analysis of structural systems. Prior to joining the University of Maryland he held supervisory positions in the Center for Manufacturing Engineering, at the National Institute of Standards and Technology (NIST), which included being the head of the Robot Metrology Group and manager of the vertical machining workstation in the Automated Manufacturing Research Facility. He went to NIST after being a professor for almost a decade in the Department of Mechanics at the Catholic University of America in Washington DC. Dr. Magrab is a Life Fellow in the American Society of Mechanical Engineers and a registered professional engineer in Maryland. He has authored seven textbooks and published numerous journal articles. He holds one patent.

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