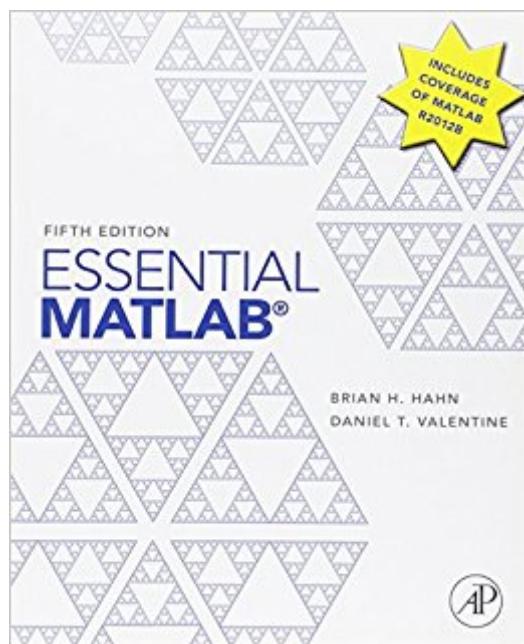


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# Essential MATLAB For Engineers And Scientists, Fifth Edition



## Synopsis

The fifth edition of Essential MATLAB for Engineers and Scientists provides a concise, balanced overview of MATLAB's functionality that facilitates independent learning, with coverage of both the fundamentals and applications. The essentials of MATLAB are illustrated throughout, featuring complete coverage of the software's windows and menus. Program design and algorithm development are presented clearly and intuitively, along with many examples from a wide range of familiar scientific and engineering areas. This is an ideal book for a first course on MATLAB or for an engineering problem-solving course using MATLAB, as well as a self-learning tutorial for professionals and students expected to learn and apply MATLAB. Updated with the features of MATLAB R2012b

Expanded discussion of writing functions and scripts

Revised and expanded Part II: Applications

Expanded section on GUIs

More exercises and examples throughout

## Book Information

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## Customer Reviews

Daniel Valentine is a Professor of Mechanical and Aeronautical Engineering at Clarkson University and Affiliate Director of the Clarkson Space Grant Program which is part of the New York NASA Space Grant Consortium. This program has provided support for undergraduate research appointments, and for graduate students. He is currently investigating the nonlinear dynamics of two-dimensional, Navier-Stokes flows as part of his work on the development of computational methods to solve fluid dynamics problems. He is also working on the flow-structure interaction of long-span bridges, unsteady hydrodynamics and offshore renewable energy. Other activities include

investigations to develop a computational method to predict the effect of a marine propulsor on wave resistance of ships, to examine the effect of density stratification on rotating flows, to develop computational tools to predict the time-averaged properties of high-Reynolds number flows among other fluid mechanics problems.

The book is designed for the novice, and does not really delve into finer details. It is relatively thin book with 400 pages. The audience is newbies with virtually no knowledge of Matlab basics (navigation of IDE, variables, numbers etc). If you have previously worked with MatLab (or other software such as Maple, Mathematica, etc) before, this book maybe of little use other than a quick refresher. Most of the information in the book is available on the web. Good as a quick reference, and simple starter examples.

Great book for complete beginners without much programming experience, or for a seasoned programmer who wants to get a broad overview of MatLab quickly. I had used MatLab briefly many years ago but only recently became interested in it again. Spending a day with this book helped me quickly get up to speed on all the basics of the app and language. The examples are fun and I ran into only 1 typo in all the problems I tried, which is far better than your typical programming book.

Essential MatLab for Engineers and Scientists is an excellent introduction to MatLab and I would assume a good reference for experienced users. I purchased the R2013b version of the program whereas the text appears to be based on the 2012 version. In general, I think that should require the publishers to indicate the version of software on which the ebooks are based as I have downloaded ebooks that are not at all useful for the current versions. If the author updates the text of Essential MatLab for Engineers and Scientists, I would like to see additional information on the use of Tex and/or LaTex to incorporate Greek and other symbols for publishing MatLab output.

great book, very helpful

Very good overview of Matlab syntax and semantics plus good multi-domain examples. This is one of my main go-to references for working in the Matlab environment.

Great

Good resource for looking up syntax and basic stuff for some who knows coding but just picking up mat lab. Bit disjointed for a class r newbie just starting.

Easy to use and understand

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