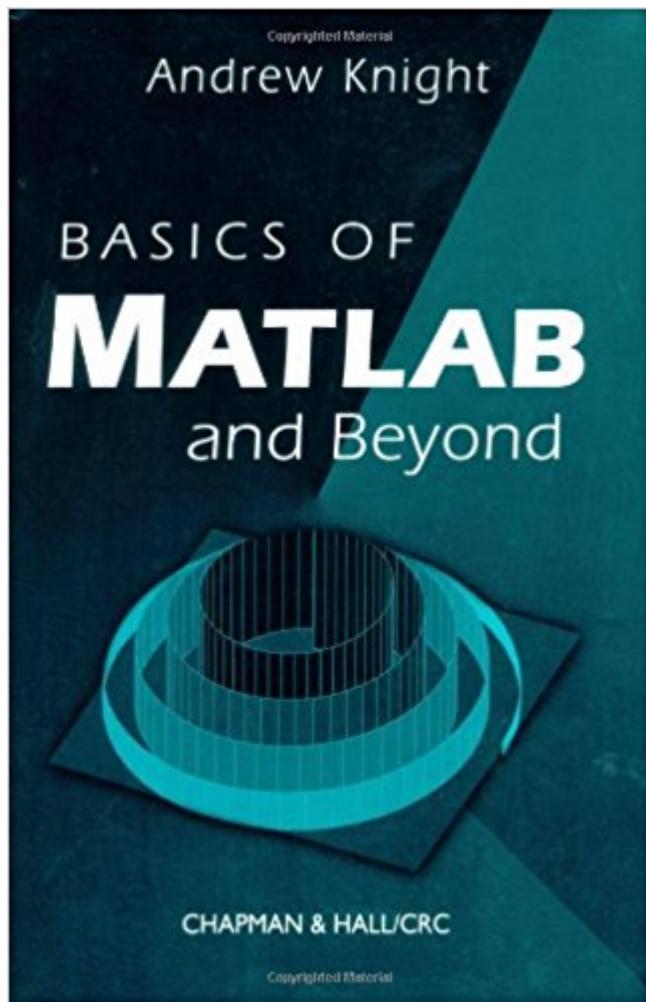


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# Basics Of MATLAB And Beyond



## **Synopsis**

MATLAB®—the tremendously popular computation, numerical analysis, signal processing, data analysis, and graphical software package—allows virtually every scientist and engineer to make better and faster progress. As MATLAB's world-wide sales approach a half-million with an estimated four million users, it becomes a near necessity that professionals and students have a level of competence in its use. Until now, however, there has been no book that quickly and effectively introduces MATLAB's capabilities to new users and assists those with more experience down the path toward increasingly sophisticated work. *Basics of MATLAB and Beyond* is just such a book. Its hands-on, tutorial approach gently takes new users by the hand and leads them to competence in all the fundamentals of MATLAB. Then, with equal effectiveness, it covers the advanced topics that lead to full, creative exploitation of MATLAB's awesome power. With this book, readers will:

- Solve more problems with MATLAB—and solve them faster
- Create clearer, more beautiful graphics with control over every detail
- Create their own MATLAB code
- Share their work by exporting data and graphics to other applications
- Develop graphical user interfaces
- Based on the latest 5.x release, *Basics of MATLAB and Beyond* supplies both novice and experienced users the tools they need to gain proficiency, increase productivity, and ultimately have more fun with MATLAB.

## **Book Information**

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## **Customer Reviews**

I am a neurologist and not an engineer. I made a hesitant first introduction with MATLAB when I ventured into studying some event related spectral power changes. I wanted a DIY manual- which

will enable me to play with MATLAB and learn in the process. This is a good book- assumes no prior knowledge, has clarity and manageable volume. However, there are some gaps. For someone from non-mathematical background, a brief chapter on linear algebra (slightly more than few sections in chapter 1) or even suggesting some resource to go to before venturing into MATLAB, would have been appreciable. Perhaps the biggest drawback of this book is that it has lot of gaps between chapters and lacks a smooth flow. Majority of latter chapters use concepts that are not given in earlier ones, rather a lot of knowledge is presumed (e.g. chapter on TFA could have done with some introduction to signals and systems). Perhaps, engineers will have that material from other parallel courses. All in all, a good but insufficient introductory book. I will recommend using it in conjunction with another book and not alone.

I used this book as part of a computer-modeling course at Duke. I don't think it alone will make you a wiz at Matlab, but it does help you overcome that, "What did I just get myself into?" feeling. For the novice this is a very useful resource that will keep you from bouncing your head against the nearest wall while using the program.

I was first introduced to Matlab as part of a junior level signal processing course. Without any kind of introductory manual on using Matlab, I struggled through the course believing that it was a pain to use. Recently, needing to use Matlab again, I found Knight's book in my school library. It made a huge difference. After just a few hours with the book I felt like a Matlab wiz. This book covers the basics concisely, using plenty of examples, and also shows how easy it is to use more advanced features like graphical user interfaces. It also provides instruction for downloading a library of useful m-files and demos. It is not a comprehensive reference but I couldn't recommend it more highly to a person who needs to learn to use Matlab or feels uncomfortable using it.

you'd get information about the Matlab programming

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