



MATLAB Programming for Engineers

By Stephen J. Chapman

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Emphasizing problem-solving skills throughout this very successful book, Stephen Chapman introduces the MATLAB language and shows how to use it to solve typical technical problems. The book teaches MATLAB as a technical programming language showing students how to write clean, efficient, and well-documented programs. It makes no pretense at being a complete description of all of MATLAB's hundreds of functions. Instead, it teaches students how to locate any desired function with MATLAB's extensive on line help facilities. Overall, students develop problem-solving skills and are equipped for future courses and careers using the power of MATLAB.

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MATLAB Programming for Engineers By Stephen J. Chapman Bibliography

- Sales Rank: #355343 in Books
- Published on: 2007-11-08
- Original language: English
- Number of items: 1
- Dimensions: 1.18" h x 7.36" w x 9.15" l, 2.18 pounds
- Binding: Paperback
- 592 pages

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Editorial Review

Review

The Chapman text is fairly easily read and there are a number of concrete examples in each chapter which illustrate the programming concepts.

There are numerous tips and suggestions given in the Chapman text. It's very good at illustrating the concepts of programming especially through the use of examples which demonstrate the output from the programs.

The homework exercises are plentiful and cover a range of difficulty. I like very much that plotting is interspersed throughout the book providing a break that students can enjoy in the middle of material that can often be seen as dry. The quizzes are also great. My students use them to verify their understanding of the sections in which they appear.

While reviewing this book I would simply pick up the book and read it, much like you would a novel. I was surprised that it read very well. The examples were well placed and greatly helped in understanding what was being presented.

About the Author

Stephen J. Chapman received a BS in Electrical Engineering from Louisiana State University (1975), an MSE in Electrical Engineering from the University of Central Florida (1979), and pursued further graduate studies at Rice University. From 1975 to 1980, he served as an officer in the U. S. Navy, assigned to teach Electrical Engineering at the U. S. Naval Nuclear Power School in Orlando, Florida. From 1980 to 1982, he was affiliated with the University of Houston, where he ran the power systems program in the College of Technology. From 1982 to 1988 and from 1991 to 1995, he served as a Member of the Technical Staff of the Massachusetts Institute of Technology's Lincoln Laboratory, both at the main facility in Lexington, Massachusetts, and at the field site on Kwajalein Atoll in the Republic of the Marshall Islands. While there, he did research in radar signal processing systems. He ultimately became the leader of four large operational range instrumentation radars at the Kwajalein field site (TRADEX, ALTAIR, ALCOR, and MMW). From 1988 to 1991, Chapman served as a research engineer at Shell Development Company in Houston, Texas, where he did seismic signal processing research. He was also affiliated with the University of Houston, where he continued to teach on a part-time basis. Mr. Chapman is currently Manager of Systems Modeling and Operational Analysis for BAE Systems Australia, in Melbourne, Australia. He is the technical leader of a team that has developed a model of how naval ships defend themselves. This model contains more than 400,000 lines of MATLAB code written over more than a decade. Mr. Chapman is a Senior Member of the Institute of Electrical and Electronic Engineers (and several of its component societies). He is also a member of the Institution of Engineers (Australia).

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