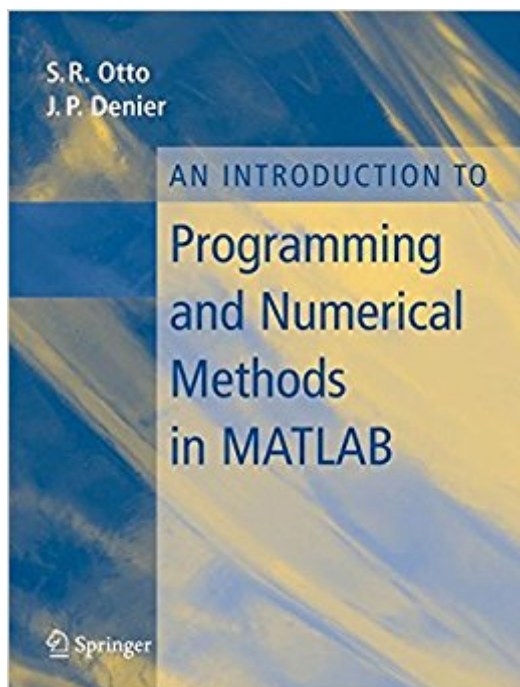


The book was found

An Introduction To Programming And Numerical Methods In MATLAB



Synopsis

An elementary first course for students in mathematics and engineering Practical in approach: examples of code are provided for students to debug, and tasks with full solutions are provided at the end of each chapter Includes a glossary of useful terms, with each term supported by an example of the syntaxes commonly encountered

Book Information

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Customer Reviews

From the reviews of the first edition: "This book is an introduction to the numerical methods that are frequently used in science and engineering undergraduate courses and it is based on the MATLAB programming environment. The text is easy to read even for those who have little experience with computer practice. There are three appendices and the most useful of them, about 70 pages, gives solutions to the tasks at the end of chapters." (Matti Vuorinen, Zentralblatt MATH, Vol. 1076, 2006)

MATLAB is a powerful programme, which naturally lends itself to the rapid implementation of most numerical algorithms. This text, which uses MATLAB, gives a detailed overview of structured programming and numerical methods for the undergraduate student. The book covers numerical methods for solving a wide range of problems, from integration to the numerical solution of differential equations or the stimulation of random processes. Examples of programmes that solve problems directly, as well as those that use MATLAB's high-level commands are given.

Each chapter includes extensive examples and tasks, at varying levels of complexity. For practice, the early chapters include programmes that require debugging by the reader, while full solutions are given for all the tasks. The book also includes: a glossary of MATLAB commands appendices of mathematical techniques used in numerical methods. Designed as a text for a first course in programming and algorithm design, as well as in numerical methods courses, the book will be of benefit to a wide range of students from mathematics and engineering, to commerce.

Thanks

Taking it slow so that I can understand the program. I would definitely recommend it for beginning math students looking to gain an advantage.

Otto certainly gives you a good exposure to Matlab. The many examples and problems will greatly help you acquire the expertise, if you can knuckle down and tackle them. The other utility of the book is in learning the various numerical methods, independent of the specific language of Matlab that they are implemented in. There is a possible advantage to doing so with Matlab, as contrasted to coding the methods in a general purpose language like C or Java. Since Matlab is already optimised [in some sense] for handling such methods. And especially with easily accessible and powerful graphing routines readily at hand. In other languages, a lot of your effort will inevitably be focused on writing this routines, as opposed to actually dealing with the numerical methods themselves.

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