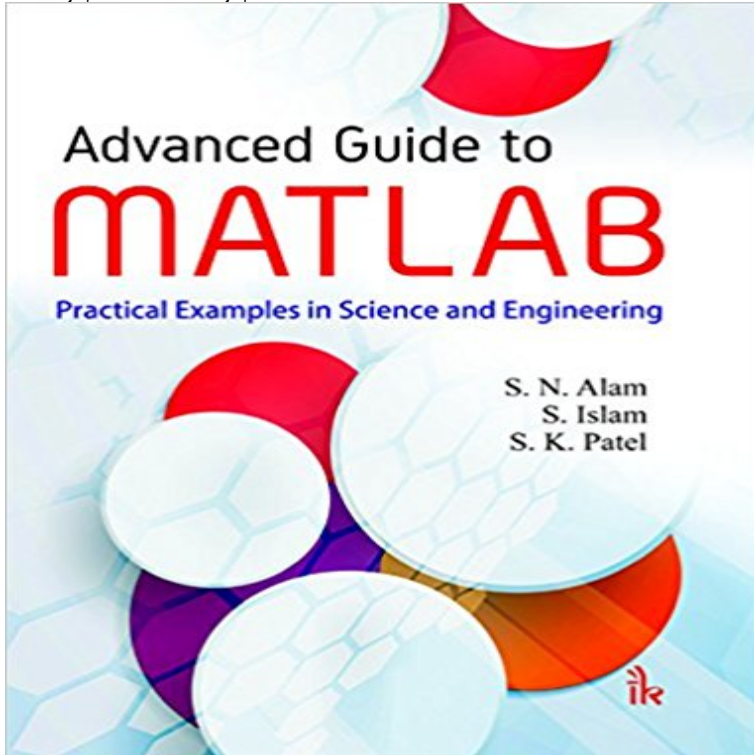


Advanced Guide to MATLAB: Practical Examples in Science and Engineering



A sequel to Understanding MATLAB: A Textbook For Beginners, which has been published earlier, this book is an advanced-level guide to MATLAB with a number of applications in science and engineering. There are a number of solved problems from all important areas of science and engineering to give enough practice to the reader. MATLAB integrates computation, visualization and programming in a very user-friendly and easy-to use environment. This book is mainly aimed at those who already know the basics of the language and would like to use MATLAB to solve advanced engineering problems. Here, in this book, the authors have tried to illustrate the advanced features of MATLAB. Salient Features: Provides a crisp discussion on the history and evolution of MATLAB Discusses the MATLAB compiler and how it works Detailed treatment of Numbers, Matrices and Matrix operations Dedicated chapters on Plotting, Image Processing, and Animations, Sounds and Movies Comprehensive coverage of Numerical Methods. A separate Dictionary of Additional Terms at the end of the book A separate chapter on Solved Problems Step by step discussion of solved problems Abundant sample codes, algorithms, and flowcharts. Contents: 1. History of computers, computer languages and MATLAB 2. The compiler 3. Numbers, review of matrices and matrix operations 4. Plotting using MATLAB 5. Image processing using MATLAB 6. Animation, sound and movies using MATLAB 7. Numerical methods using MATLAB 8. Unconstrained single variable optimization methods 9. Statistical functions 10. Dictionary of additional terms 11. Index.

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