

Engineering Problem Solving with C, 3e

Etter, D. M.

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Engineering Problem Solving With C Etter

Delores Maria Etter, Jeanine A. Ingber



Engineering Problem Solving With C Etter:

Engineering Problem Solving With C++ Delores M. Etter, Jeanine A. Ingber, 2016-03-18 This is the eBook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book For one two semester courses in Engineering and Computer Science at the freshman sophomore level

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Engineering Problem Solving with C D. M. Etter, 2005

Engineering Problem Solving with C++ Delores M. Etter, Jeanine A. Ingber, 2003 Best selling author Delores M Etter and computer science and engineering educator coauthor Jeanine A Ingber provide an introduction to engineering problem solving with an object based programming approach using the ANSI C programming language The authors employ an easy to use problem solving methodology to consider a diverse range of grand challenges including prediction of weather climate and global change computerized speech understanding mapping of the human genome improvement in vehicle performance enhanced oil and gas recovery and engineering simulation The emphasis on engineering and scientific problem solving remains as an integral part of the text Introduces engineering problem solving with the following objectives To develop a consistent methodology for solving engineering problems To illustrate the problem solving process with C through a variety of engineering examples and applications To introduce the

concept of object based programming and the features of C that support it while focusing on the fundamentals of programming Key features Presents a five step process used consistently throughout the text for solving engineering problems Introduces objects early in the discussion of data types and standard input and output Discusses fundamental capabilities of C for solving engineering problems including control structure data files and functions Provides flexibility in covering topics Exposes the reader to the template functions Addresses one dimensional arrays and Matrices with an introduction to the vector class Explains programmer defined classes including overloaded operators and inheritance Explores the use of pointers and dynamic memory allocation Includes an introduction to dynamic data structures using classes supported in the C Standard Library Offers an Instructor s Resource CD ROM with Microsoft PowerPoint presentations

Engineering Problem Solving with C++ Delores Maria Etter, Jeanine A. Ingber, 2008 This is a clear concise introduction to problem solving and the C programming language The authors proven five step problem solving methodology is presented and then incorporated in every chapter of the text Uses outstanding engineering and scientific applications throughout all applications are centered around the theme of engineering challenges in the 21st century Includes major revisions to bring the material up to date such as new coverage of file streams including a discussion of the stream class hierarchy and a discussion of stream state flags numerous new tables and programming examples aid in error checking A useful reference for engineers at national labs who want to make the transition from C to C

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