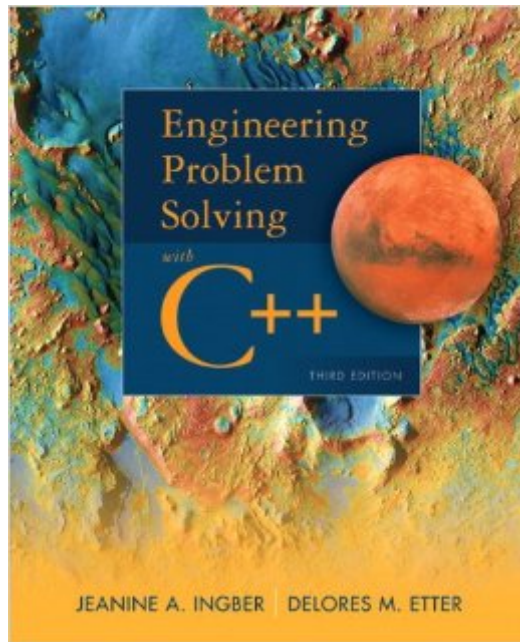


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# Engineering Problem Solving With C++ (3rd Edition)



## Synopsis

Engineering Problem Solving with C++, 3e, is ideal for one/two semester courses in Engineering and Computer Science at the freshman/sophomore level. This text 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. Outstanding engineering and scientific applications are used throughout; all applications are centered around the theme of engineering challenges in the 21st century.

## Book Information

Paperback: 624 pages

Publisher: Pearson; 3 edition (November 24, 2011)

Language: English

ISBN-10: 0132492652

ISBN-13: 978-0132492652

Product Dimensions: 7.3 x 0.9 x 9 inches

Shipping Weight: 1.8 pounds

Average Customer Review: 3.9 out of 5 stars See all reviews (55 customer reviews)

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## Customer Reviews

To motivate you, the book starts with a lovely set of colour plates depicting various important problems that need massive computational power. Like predicting weather and climate, text to speech, voice recognition and space exploration. Indeed, the first examples, about weather, also grace the book's cover. But the narrative quickly leaves behind the splendour of the plates. The usages of C++ are for raw computational applications. There is no implementation of a GUI. The user interface, to the extent that it exists, is confined to text: stdin, stdout, stderr. What the book tells you in part is that optimising number crunching is a different kettle of fish from writing glitzy GUI applications. Nowadays, many computer books seem to focus on the latter. In this sense, the book is a throwback to texts written before 1990. The need for a book like this has never gone away and it is good that the authors provide us with a fresh reminder. The book lightly touches on various

algorithms. For example, Newton Raphson for root finding, and Gaussian solutions of matrix equations. Mostly, you get an introduction to the capabilities of C++ for attacking problems. I would recommend section 3.1 on algorithm development as the most important part of the book. It describes how to do top down design of a program. How to decompose a problem into smaller parts, making it easier to attack each part. The use and refinement of pseudocode is illustrated. A closely related task. These are vital general purpose skills for the professional programmer, that you should cultivate.

This book is required for my C++ class. Although it covers pertinent topics, and the text describes how to solve problems well, the examples are poorly written. They contain many errors, and don't explain why they are using certain functions. Not only does someone who is just learning C++ have to figure out where the errors are, but they have to figure out why they are using a certain code. Not only do the examples have errors, but the problem sets have all sorts of typos. A general example: it will tell the student to alter the program they wrote for problem x on page y, and said problem doesn't exist. This results in searching the text for the proper problem. This causes errors in problems assigned by my professor, studying, and trying to find an example in class. My husband holds a degree in computer science, and the book even annoys him. At least buying it through saved me a lot of money compared to my school's bookstore, but still, I wish I didn't have to buy this for class. I have a library of more helpful books, and usually resort to them, or asking "the Internet" questions to clarify the text.

As a computer science student who changed majors to computer engineering, this was one of the best programming books that I've read in college. It actually teaches you problem solving in a very straightforward manner. Not without flaws though, since there are quite a few typos and errors in the code of the programs in the book; however, everyone with at least some basic understanding of computer programming should be able to figure out what is wrong and fix them quite easily. With the help of this book I was able to apply C++ to a lot of common problems encountered throughout all engineering fields; from statistics to simple physics and math problems. After taking the class, in which this book was used, this book has become one of my main references.

This book is a great book. I had to get this book for an engineering class I am currently taking, and so far this book has been great. Provides many examples and solutions. It makes it easy to learn C coding. Coding is not always easy but this book is just one more thing to make it more simple. I

recommend this book! Even if it is not a recent book, it still works. C coding does not change much, so modern books you pay more for might not be worth your extra \$\$\$\$. Great useful book!

Over the past 10 years, I have recommended this book to engineers who are trying to learn C and apply it to control situations. I learned "embedded C" from this book. Especially interesting to me were some "out of the box" concepts that Dr. Etter introduces, such as structure charts in chapter 4. The methodology for problem solving is another example - a concept that engineers can grasp. Her notes on Style and Debugging are tremendous! I go back to this book often when I am working with C code.

I used this book at my university for my first semester of programming for my EE degree. It's easy to read and there are many nice practical examples to provide students motivation for learning and mastering the material. If you are a student or a self programmer this is a good option to at least use as a reference if you are planning on learning the C programming language.

Hard subject for a hard class and this book isn't the greatest in the world but it helps to get the job done. It's best to get a hold of the teachers solution manual when it comes to this book and it'll make programming a hell of a lot easier

I needed to take a basic C++ programming course and this was the book assigned. I got absolutely nothing from this book. Its text is very hard to read in that it doesn't try to make the subject make sense. Learning a programming language (especially C) isn't easy for many people, myself included, and this book doesn't make it any easier. Pass on this book if you don't know anything about programming and want to learn something.

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