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A more accurate title for
the book would be "C for
Engineers and Scientists,
with some C++ topics."

There is very little
coverage of classes,
namespaces are nearly

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entirely ignored, and some blatantly wrong practices are encouraged (e.g. you should not write "using namespace std;" at the top of each file, but this book says you should).

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This text introduces the
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engineering and science
applications in the
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Variables The variable of
pointer type is used to
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memory. The size of a variable of pointer type is implementation-dependent. It is typically 4 bytes for 32-bit machines and 8 bytes for 64-bit machines. It is

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3 One-Dimensional

Arrays • One-

dimensional array: A list
of related values with the
same data type, stored
using a single group
name (called the array
name) • Syntax:

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dataType arrayName[number-of-items] • By convention, the number of items is first declared as a constant, and the constant is used in the array declaration

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Third ...~~

A more accurate title for the book would be "C for Engineers and Scientists,

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with some C++ topics."

There is very little coverage of classes, namespaces are nearly entirely ignored, and some blatantly wrong practices are encouraged (e.g. you should not write "using namespace std;" at the top of each file, but this book says you should).

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About The Book:

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range of new applications and examples taken from real situations related to electrical and structural engineering, fluid mechanics, mathematics, power generation, and heat transfer challenges.

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students as C++
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Engineers are hard
workers, where scientists
are free workers.

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—Supun

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This book focuses on systematic software design approach in C for applications in engineering and science following the latest standard developed by the ANSI C/ISO C Standard Committees called C99.

This text teaches the

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essentials of C programming, concentrating on what readers need to know in order to produce stand-alone programs and so solve typical scientific and engineering problems. It is a learning-by-doing book, with many examples and exercises, and lays a foundation of scientific programming concepts

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and techniques that will prove valuable for those who might eventually move on to another language. Written for undergraduates who are familiar with computers and typical applications but are new to programming.

C is a favored and widely

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used programming language, particularly within the fields of science and engineering. C Programming for Scientists and Engineers with Applications guides readers through the fundamental, as well as the advanced concepts, of the C programming language as it applies to solving engineering and scientific problems. Ideal

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for readers with no prior programming experience, this text provides numerous sample problems and their solutions in the areas of mechanical engineering, electrical engineering, heat transfer, fluid mechanics, physics, chemistry, and more. It begins with a chapter focused on the basic terminology

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relating to hardware,
software, problem
definition and solution.

From there readers are quickly brought into the key elements of C and will be writing their own code upon completion of Chapter 2. Concepts are then gradually built upon using a strong, structured approach with syntax and semantics presented in an easy-to-understand

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sentence format. Readers will find C Programming for Scientists and

Engineers with Applications to be an engaging, user-friendly introduction to this popular language.

This extensive library of computer programs-written in C language-allows readers to solve numerical problems in

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areas of linear algebra,
ordinary and partial
differential equations,
optimization, parameter
estimation, and special
functions of
mathematical physics.

The library is based on
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computing element: this book should be used where C++ is the chosen language, already the majority of cases. The book is comprehensive and includes advanced features of the language, indicating where they are of special interest to the reader. No prior knowledge of C is assumed, and the book's bias towards numerical

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applications makes it
unique in the field.

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the power of C++ to
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Highlights: builds on
knowledge of both
FORTRAN and C, the
languages most familiar
to scientists and
engineers; systematically

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treats object-oriented programming, templates, and the C++ type system; relates the C++ programming process to expressing commonality in the design and implementation of programs; describes how to use existing FORTRAN and C subroutine libraries to implement C++ classes; introduces advanced

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techniques coordinating
templates, inheritance,
virtual function
interfaces, and
exceptions in substantive
examples; provides
examples, including an
extensive family of array
classes, smart pointers,
class wrappers for
LAPACK, classes for
abstract algebra and
dimensional analysis,
function objects,

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exploiting existing C and FORTRAN libraries, automatic differentiation, and data analysis via nonlinear least squares using the singular value decomposition; and references key sources of new programming ideas and C++ programming techniques. Scientific and Engineering C++ will help engineers and scientists fluent in

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FORTRAN or C;
professional
programmers using C or
C++ who are looking for
a new, systematic
discussion of C++ for
object-oriented
programming; and
advanced programmers
who are interested in
sophisticated C++
programming
techniques.

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As scientific and engineering projects grow larger and more complex, it is increasingly likely that those projects will be written in C++. With embedded hardware growing more powerful, much of its software is moving to C++, too. Mastering C++ gives you strong skills for programming at nearly

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every level, from “close to the hardware” to the highest-level

abstractions. In short, C++ is a language that scientific and technical practitioners need to know. Peter

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Discovering Modern

C++ is an intensive introduction that guides you smoothly to sophisticated approaches

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based on advanced features. Gottschling introduces key concepts using examples from many technical problem domains, drawing on his extensive experience training professionals and teaching C++ to students of physics, math, and engineering. This book is designed to help you get started rapidly and then master increasingly

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robust features, from lambdas to expression templates. You'll also learn how to take advantage of the powerful libraries available to C++ programmers: both the Standard Template Library (STL) and scientific libraries for arithmetic, linear algebra, differential equations, and graphs. Throughout,

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Gottschling demonstrates how to write clear and expressive software using object orientation, generics, metaprogramming, and procedural techniques. By the time you 're finished, you 'll have mastered all the abstractions you need to write C++ programs with exceptional quality and performance.

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integrates three core areas
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engineering - including
both traditional methods
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programming Without
assuming prior
knowledge of any
particular programming
language, and avoiding
the need for students to
learn from separate,
specialised Computer
Science texts, John
Robinson takes the
reader from small-scale
programming to
competence in large
software projects, all

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Copious examples and case studies are provided in C++. The book is especially suitable for undergraduates in the natural sciences and all branches of engineering who have some knowledge of computing basics, and now need to understand and apply software design to tasks like data analysis,

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Robinson introduces
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problem solving using a
range of design
principles, applied to the
creation of medium-
sized systems, providing
key methods and tools
for designing reliable,
efficient, maintainable

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