



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 every level, from "close to the hardware" to the highest-level abstractions. In short, C++ is a language practitioners need to know. Peter Gottschling's *Discovering Modern C++* is an intensive introduction that guides you smoothly to sophisticated approaches 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. You get started rapidly and then master increasingly 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, Gottschling demonstrates how to write clear and concise code, with an emphasis on readability, 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.

As the number and size of projects continue to increase, there is a growing demand for effective project managers. *Project Management: A Risk-Management Approach* prepares students to successfully navigate the many challenges, factors, and situations that project managers face. Authors Ted Klasterin and Gary Mitchell emphasize the importance of mitigating risk at every stage, helping students avoid common pitfalls that can lead to project failures, compromised schedules, or incurred costs. Real-world examples, cases, solved problems, and practice problems help bring methodologies to life. Readers will be equipped with the tools they need to plan, schedule, and monitor even the most complex projects in a variety of market sectors.

Annual Meeting of the American Association of Cost Engineers

Computers in Engineering

Engineering Secure Future Internet Services and Systems

Presented at the ... ASME International Mechanical Engineering Congress

Journal of Medical Engineering & Technology

Putting the Pieces Together

This Guideline presents the framework of process safety knowledge and expertise versus the desired competency level in a "super-matrix" format, vertically and diagonally. The matrix references for potential remedies/required training may be tailored to a company's internally developed training, reference externally available training, or some combination of the two. Chapters include: Identify Process Safety Competencies; Matrix: Individual and Corporate Process Safety Competencies; Conduct Assessments vs. Needs; Develop Gap Closure Plans; and Sustaining Competencies.

While classroom learning is suited for conveying basic information to large numbers of people, Hoag (Engine Research Center, U. of Wisconsin at Madison) argues that continuing education for engineers most often requires small groups of people to rapidly develop proficiencies. He discusses the roles of upper management, direct supervisors, and individual engineers in his proposed model for continuing education. Applications related to rotational programs, organizational assessment, and program evaluation. Annotation copyrighted by Book News, Inc., Portland, OR

A second edition of a popular guide to scientific and technical communication, updated to reflect recent changes in computer technology. This guide covers the basics of scientific and engineering communication, including defining an audience, working with collaborators, searching the literature, organizing and drafting documents, developing graphics, and documenting sources. The documents cover reports, journal articles, oral presentations, instructions, and CVs and resumes. Throughout, the authors provide realistic examples from actual documents and situations. The materials, drawn from the authors' experience teaching scientific and technical communication, bridge the gap between the university novice and the seasoned professional. In the five years since the first edition was published, many changes have taken place in the way scientific and technical communication is done.

Today, most correspondence is transmitted electronically, proposals are submitted online, reports are distributed to clients through intranets, journal articles are written for electronic transmission, and conference presentations are posted on the Web. Every chapter of the book reflects these changes. The second edition also includes a compact Handbook of Style and Usage that provides guidelines for writing scientific and technical documents, with many examples of strategies for improved style.

Techniques and Procedures

Turning Ideas Into Reality, Fourth Report of Session 2008-09, Vol. 3: Oral and Written Evidence

Hazards XIX

Resources in Education

An Introduction

Assessment of Corrosion Education

Incorporating HC 470-i-iii, 640-i-iii, 599-i-iii, 1064-i, 1202-i, 1194-i of session 2007-08

Component-Based Software Engineering (CBSE) is the way to produce software fast. This book presents the concepts in CBSE. While detailing both the advantages and the limitations of CBSE, it covers every aspect of component engineering, from software engineering practices to the design of software component infrastructure, technologies, and system.

Tools and Methods for Process Acceleration

Engineering/technology Management ...

An Intensive Course for Scientists, Engineers, and Programmers

A Comprehensive Guide to Project Management Schedule and Cost Control

Presented at 2005 ASME International Design Engineering Technical Conferences and Computers and Information in Engineering Conference, September 24-28, 2005, Long Beach, California USA

How to Achieve 27001 Certification