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Petroleum engineering now has its own true classic handbook that reflects the profession's status as a mature major engineering discipline. Formerly titled the Practical Petroleum Engineer's Handbook, by Joseph Zaba and W.T. Doherty (editors), this new, completely updated two-volume set is expanded and

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revised to give petroleum engineers a comprehensive source of industry standards and engineering practices. It is packed with the key, practical information and data that petroleum engineers rely upon daily. The result of a fifteen-year effort, this handbook covers the gamut of oil and gas engineering topics to provide a reliable source of engineering and reference information for analyzing and solving problems. It also reflects the growing role of natural gas in industrial

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development by integrating natural gas topics throughout both volumes. More than a dozen leading industry experts-academia and industry-contributed to this two-volume set to provide the best , most comprehensive source of petroleum engineering information available. Dale Shermon's Systems Cost Engineering is based on over 35 years of experience of the application of cost engineering principles in large engineering and aerospace projects, and IT/business transformation

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projects in financial services. Each chapter explores a different application of parametrics, based on real-life case examples and provides the reader with a detailed guide to the rationale and value of cost engineering in a different industry/program context.

Project management for oil and gas projects comes with a unique set of challenges that include the management of science, technology, and engineering aspects.

Underlining the specific

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issues involved in projects in this field, Project Management for the Oil and Gas Industry: A World System Approach presents step-by-step application of project management techniques. Using the Project Management Body of Knowledge (PMBOK®) framework from the Project Management Institute (PMI) as the platform, the book provides an integrated approach that covers the concepts, tools, and techniques for managing oil and gas projects. The authors discuss

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specialized tools such as plan, do, check, act (PDCA); define, measure, analyze, improve, control (DMAIC); suppliers, inputs, process, outputs, customers (SIPOC); design, evaluate, justify, integrate (DEJI); quality function deployment (QFD); affinity diagrams; flowcharts; Pareto charts; and histograms. They also discuss the major activities in oil and gas risk assessment, such as feasibility studies, design, transportation, utility, survey works, construction, permanent

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structure works, mechanical and electrical installations, and maintenance. Strongly advocating a world systems approach to managing oil and gas projects and programs, the book covers quantitative and qualitative techniques. It addresses technical and managerial aspects of projects and illustrates the concepts with case examples of applications of project management tools and techniques to real-life project scenarios that can serve as lessons learned for

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best practices. An in-depth examination of project management for oil and gas projects, the book is a handbook for professionals in the field, a guidebook for technical consultants, and a resource for students.

Rev. ed. of: How to work effectively with consulting engineers.

2003.

Project Management
& Leadership Skills for
Engineering & Construction
Projects

Fundamental Concepts for
Owners, Engineers,
Architects, and Builders

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The Essential Toolbox for
Young Engineers
Integrated Design and Cost
Management for Civil
Engineers

Project Retrospectives

This handbook provides a clear explanation of the commercial, contractual and statutory aspects of a capital project in the process industries from feasibility studies, through commissioning/contract; to construction operation.

Making the specifics of a complex concern accessible and its handling quite manageable, this fourth edition of the Project and Cost Engineers' Handbook examines the variables associated

with international projects and project risk analysis. It provides instruction on contingency planning, delves into ethical considerations, considers the imp
Covering the life of a construction project from inception to completion, this useful reference explains basic and advanced aspects of engineering economics, cost estimating, cost control, cost forecasting, planning, and scheduling. It serves both as a comprehensive introduction to cost engineering and as a practical, on-the-job guide for any construction project where the object is economy.
Construction Cost Engineering Handbook describes the responsibilities of each member

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of the construction team and defines their relationship to project control ... analyzes project economics before, during, and after a project's finish ... examines various types and methods of estimating ... distinguishes between cost reporting and cost forecasting, with valuable cost and scheduling integration examples ... considers planning and scheduling procedures such as the bar chart and sophisticated contemporary techniques ... highlights ways of avoiding common mistakes through data development ... and furnishes computer samples for estimating, cost control, cost forecasting, and scheduling. Illustrated with more than 180 excellent diagrams and drawings,

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and featuring convenient appendixes on foreign and remote projects, code of accounts and work breakdown structure, and typical project activities, Construction Cost Engineering Handbook is an indispensable reference for civil, cost, project, plant, design, construction, and industrial engineers and managers as well as architects, building contractors, and financial controllers involved with construction projects. Book jacket.

Aiming to bridge the gap between the quantitative viewpoint of management science and the practical, day-to-day needs of project cost management, this text offers coverage of an integrated cost management

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programme. It presents the use of method study techniques to increase the effectiveness of procedures and improve the productivity of resources, emphasizing a systematic approach to cost control.

Computer-Organized Cost Engineering

Project Management for the Oil and Gas Industry

Project and Cost Engineers' Handbook, Third Edition, Project Engineering

Producing Drawings,

Specifications, and Cost

Estimates for Heavy Civil Projects

Introduction to Construction

Project Engineering

This excellent book systematically identifies the issues surrounding the effective linking of project

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management techniques and engineering applications. It is not a technical manual, nor is it procedural. Instead, it encourages creative learning of project engineering methodology that can be applied and modified in different situations. In short, it offers a distillation of practical 'on-the job' experience to help project engineers perform more effectively. While this book specifically addresses process plants, the principles are applicable to other types of engineering project where multidisciplinary engineering skills are required, such as power plant and general factory construction. It focuses on the technical aspects, which typically influence the configuration of the plant as a whole, on the interface between the various disciplines involved, and the way in

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which work is done - the issues central to the co-ordination of the overall engineering effort. It develops an awareness of relationships with other parties - clients, suppliers, package contractors, and construction managers - and of how the structure and management of these relationships impact directly on the performance of the project engineer. Readers will welcome the author's straightforward approach in tackling sensitive issues head on. COMPLETE CONTENTS Introduction A process plant A project and its management A brief overview The engineering work and its management The project's industrial environment The commercial environment The contracting environment The economic environment Studies and

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*proposals Plant layout and modelling
Value engineering and plant
optimization Hazards, loss, and
safety Specification, selection and
purchase Fluid transport Bulk solids
transport Slurries and two-phase
transport Hydraulic design and plant
drainage Observations on
multidiscipline engineering Detail
design and drafting The organization
of work Construction Construction
contracts Commissioning
Communication Change and chaos
Fast-track projects Advanced
information management Project
strategy development Key issues
summary
Traditional costing models for new
systems and new buildings in
industry, defence or government,
have tended to focus on the costs of
acquisition and implementation, with*

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scant regard for the costs of running the system or decommissioning after use. The pressure to minimize expenditure and provide value for money from reduced resources means that complex projects have to encompass a wide range of often conflicting issues and interests. Systems Lifecycle Cost-Effectiveness shows how to manage the difficulties that can arise. Optimizing the system lifecycle cost-effectiveness is complex and influenced by many factors. Massimo Pica presents a variety of models for calculating cost, benefits and risk in projects, and explains how the human factors associated with a system's design and consequent value are as important as the technical costs associated with its construction or creation. This comprehensive text

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can be used by students, experienced system engineers, cost analysts and managers to improve their understanding of the wide range of issues involved in the evaluation of system life cycle cost-effectiveness. This invaluable reference teaches effective and practical techniques to improve the overall performance and outcome of design projects in various industries. Value Engineering highlights the application of value methodology to streamline current day operations, strategic planning in company or business segments, and everyday business decisions in the private sector. The book shows how to maximize budgets, reduce life cycle costs, improve project understanding, and create better working relationships. It explains how to gather information for the

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creation, evaluation, development, and presentation of new project ideas and shows how to design an appropriate task agenda and timeline.

This new textbook fills an important gap in the existing literature, in that it prepares construction engineering and built environment students for their first experience of the jobsite.

This innovative book integrates conceptual and hands-on knowledge of project engineering to introduce students to the construction process and familiarize them with the procedures and activities they need to operate as project engineers during their summer internships and immediately after graduation. The textbook is structured into four sections: Section A: Introductory Concepts Section B: Field

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*Engineering Section C: Office
Engineering Section D: Advanced
Project Engineering The emphasis on
field tasks and case studies,
questions, and exercises taken from
across civil works and commercial
building sectors makes this the ideal
textbook for introductory to
intermediate courses in Construction
Engineering, Construction
Engineering Technology, Civil and
Architectural Engineering, and
Construction Management degree
programs.*

*Civil Engineer's Handbook of
Professional Practice
Demystifying the Black Art
RSMeans Cost Data, + Website
The Commercial, Design and Human
Factors of Systems Engineering
The Recording Engineer's Handbook
Value Engineering*

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This thoroughly rewritten and updated third edition offers comprehensive coverage of cost engineering, emphasizing capital projects and focusing on both estimating and cost control.

Maintaining and enhancing the style of presentation that made the previous editions so popular, *Applied Cost Engineering, Third Edition* furnishes an entirely new and cost-effective approach to estimating and controlling contingency, a new chapter on systems and computer applications, a new chapter on bulk material control, expanded coverage of the factors that affect estimate accuracy, an introduction to the

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novel concept of estimate and schedule classification, additional end-of-text case studies, and much more.

Student design engineers often require a "cookbook" approach to solving certain problems in mechanical engineering. With this focus on providing simplified information that is easy to retrieve, retired mechanical design engineer Keith L. Richards has written *Design Engineer's Handbook*. This book conveys the author's insights from his decades of experience in fields ranging from machine tools to aerospace. Sharing the vast knowledge and experience that has served him well

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in his own career, this book is specifically aimed at the student design engineer who has left full- or part-time academic studies and requires a handy reference handbook to use in practice. Full of material often left out of many academic references, this book includes important in-depth coverage of key topics, such as: Effects of fatigue and fracture in catastrophic failures Lugs and shear pins Helical compression springs Thick-walled or compound cylinders Cam and follower design Beams and torsion Limits and fits and gear systems Use of Mohr's circle in both analytical and experimental stress analysis This

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guide has been written not to replace established primary reference books but to provide a secondary handbook that gives student designers additional guidance. Helping readers determine the most efficiently designed and cost-effective solutions to a variety of engineering problems, this book offers a wealth of tables, graphs, and detailed design examples that will benefit new mechanical engineers from all walks.

Handbook of Green Building Design and Construction: LEED, BREEAM, and Green Globes, Second Edition directly addresses the needs of building professionals

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interested in the evolving principles, strategies, and concepts of green/sustainable design. Written in an easy to understand style, the book is updated to reflect new standards to LEED. In addition, readers will find sections that cover the new standards to BREEAM that involve new construction Infrastructure, data centers, warehouses, and existing buildings. Provides vital information and penetrating insights into three of the top Green Building Codes and Standards applied Internationally Includes the latest updates for complying with LEED v4 Practices and BREEAM Presents case studies

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that draws on over 35 years of personal experience from across the world

In today's hypercompetitive global marketplace, accurate cost estimating is crucial to bottom-line results. Nowhere is this more evident than in the design and development of new products and services. Among managing engineers responsible for developing realistic cost estimates for new product designs, the number-one source of information and guidance has been the Cost Estimator's Reference Manual. Comprehensive, authoritative, and practical, the Manual instructs readers in the full range of

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cost estimating techniques and procedures currently used in the fields of development, testing, manufacturing, production, construction, software, general services, government contracting, engineering services, scientific projects, and proposal preparation. The authors clearly explain how to go about gathering the data essential to preparing a realistic estimate of costs and guide the reader step by step through each procedure. This new Second Edition incorporates a decade of progress in the methods, procedures, and strategies of cost estimating. All the material has been updated and five new chapters

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have been added to reflect the most recent information on such increasingly important topics as activity-based costing, software estimating, design-to-cost techniques, and cost implications of new concurrent engineering and systems engineering approaches to projects. Indispensable to virtually anyone whose work requires accurate cost estimates, the Cost Estimator's Reference Manual will be especially valuable to engineers, estimators, accountants, and contractors of products, projects, processes, and services to both government and industry. The essential ready-reference for the techniques, methods,

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and procedures of cost estimating
COST ESTIMATOR'S
REFERENCE MANUAL Second
Edition Indispensable for anyone
who depends on accurate cost
estimates for engineering projects,
the Cost Estimator's Reference
Manual guides the user through
both the basic and more
sophisticated aspects of the
estimating process. Authoritative
and comprehensive, the
Manual seamlessly integrates the
many functions--accounting,
financial, statistical, and
management--of modern cost
estimating practice. Its broad
coverage includes estimating
procedures applied to such areas as:

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* Production * Software *
Development * General services *
Testing * Government contracting
* Manufacturing * Engineering *
Proposal preparation * Scientific
projects * Construction This
updated and expanded Second
Edition incorporates all the
most important recent developments
in cost estimating, such as activity-
based costing, software estimating,
design-to-cost techniques, computer-
aided estimating tools,
concurrent engineering, and life
cycle costing. For engineers,
estimators, accountants, planners,
and others who are involved in the
cost aspects of projects, the Cost
Estimator's Reference Manual is an

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invaluable information source that will pay for itself many times over.

Occupational Outlook Handbook

Industrial Engineering Projects

Project Management, Planning and Control

Project Management for Construction

Cost Management of Capital Projects

Managing Engineering, Construction and Manufacturing Projects to PMI, APM and BSI Standards

Green Construction is a specialized and skilled profession, and the author has extensive experience in this

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field. With this in mind, the reference is designed to provide practical guidelines and essential insights in preparing competent and professional looking ?Project Analysis Reports? and ?Project Status Reports?. The book also provides numerous tips on how to phrase the language of reports in a manner that is articulate and clearly understood by Real Estate Lenders and investors, as well as being an indispensable

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companion for both information and stimulus. Written in a conversational manner, this book will clarify the nuts and bolts of green construction, finance, and cost monitoring? as a profession, and will outline the many attributes required to being successful in this field. Moreover, it will scrutinize the mechanics of organizing monthly meetings, contractor payment certifications, budgets, change orders,

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construction schedules, code compliance, waivers of lean, and much more. Drawing on over 30 years of personal experience across the world - both as an employee and as an employer, the reader will learn how to plan and implement sound business strategies and form alliances in a global context. The book also offers important information and penetrating insights into the process of setting up and working as a due-diligence

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consultant. In a clear, practical style, it will be explained how to identify opportunities for business development and how to maximize return. It will also articulate how to meet new challenges as well as avoid many of the pitfalls along the way. For the individual professional, this guide provides useful information and tips to help secure a high paying professional position. The book will include amongst other

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things, up-to-date information on hundreds of useful contacts. Topics covered in this guide include: types of services offered, the consultant's role on the construction loan team, what the lender needs to know, and marketing techniques. The guide will also include a comprehensive appendix that will contain numerous sample letters (e.g. for marketing and certification), building loan agreements, AIA forms, lender/consultant

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agreement, closeout documents and much more. Likewise included will be an extensive list of useful references from a variety of resources, and much more. Indeed, this handbook will be the most detailed & comprehensive program on the market. It meets all the criteria of a major work and will provide vital and absorbing reading. Provides a detailed blueprint of how to conduct monthly meetings, investigations,

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*understand typical
client/consultant
agreements, analyze
contractor requisitions
Includes sample letters,
reports, forms and
agreements for easy
reference. Practical
guidelines for preparing
Property Analysis and
Property Status Reports
Includes a glossary of
important terms,
abbreviations and
acronyms
A well-written, hands-
on, single-source guide
to the professional
practice of civil*

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engineering There is a growing understanding that to be competitive at an international level, civil engineers not only must build on their traditional strengths in technology and science but also must acquire greater mastery of the business of civil engineering. Project management, teamwork, ethics, leadership, and communication have been defined as essential to the successful practice of civil engineering by

the ASCE in the 2008 landmark publication, Civil Engineering Body of Knowledge for the 21st Century (BOK2). This single-source guide is the first to take the practical skills defined by the ASCE BOK2 and provide illuminating techniques, quotes, case examples, problems, and information to assist the reader in addressing the many challenges facing civil engineers in the real world. Civil Engineer's Handbook of Professional Practice:

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Focuses on the business and management aspects of a civil engineer's job, providing students and practitioners with sound business management principles
Addresses contemporary issues such as permitting, globalization, sustainability, and emerging technologies
Offers proven methods for balancing speed, quality, and price with contracting and legal issues in a client-oriented profession

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Includes guidance on juggling career goals, life outside work, compensation, and growth. From the challenge of sustainability to the rigors of problem recognition and solving, this book is an essential tool for those practicing civil engineering.

Offers coverage of each important step in engineering cost control process, from project justification to life-cycle costs. The book describes cost control

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systems and shows how to apply the principles of value engineering. It explains estimating methodology and the estimation of engineering, engineering equipment, and construction and labour costs

Designed as a day-to-day resource for practitioners, and a self-study guide for the AACE International Cost Engineers' certification examination. This third edition has been revised and expanded, and topics

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*covered include project
evaluation, project
management, and planning
and scheduling.*

Construction Cost

Engineering Handbook

A World System Approach

Analysis And Methodology

Applied Cost

Engineering, Third

Edition

Getting the Best Project

Cost Estimator's

Reference Manual

A comprehensive book on project management, covering all principles and methods with fully worked examples, this book includes both hard and soft skills

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for the engineering, manufacturing and construction industries. Ideal for engineering project managers considering obtaining a Project Management Professional (PMP) qualification, this book covers in theory and practice, the complete body of knowledge for both the Project Management Institute (PMI) and the Association of Project Management (APM). Fully aligned with the latest 2005 updates to the exam syllabi, complete with online sample Q&A, and updated to include the latest revision of BS 6079 (British Standards Institute Guide to Project Management in the Construction Industry), this

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book is a complete and valuable reference for anyone serious about project management.

- â€¢ The complete body of knowledge for project management professionals in the engineering, manufacturing and construction sectors
- â€¢ Covers all hard and soft topics in both theory and practice for the newly revised PMP and APMP qualification exams, along with the latest revision of BS 6079 standard on project management in the construction industry
- â€¢ Written by a qualified PMP exam accreditor and accompanied by online Q&A resources for self-testing

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This is the digital copy of the printed book (Copyright © 2001). With detailed scenarios, imaginative illustrations, and step-by-step instructions, consultant and speaker Norman L. Kerth guides readers through productive, empowering retrospectives of project performance. Whether your shop calls them postmortems or postpartums or something else, project retrospectives offer organizations a formal method for preserving the valuable lessons learned from the successes and failures of every project. These lessons and the changes identified by the community will

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foster stronger teams and savings on subsequent efforts. For a retrospective to be effective and successful, though, it needs to be safe. Kerth shows facilitators and participants how to defeat the fear of retribution and establish an air of mutual trust. One tool is Kerth's Prime Directive: Regardless of what we discover, we must understand and truly believe that everyone did the best job he or she could, given what was known at the time, his or her skills and abilities, the resources available, and the situation at hand. Applying years of experience as a project retrospective facilitator for software organizations, Kerth

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reveals his secrets for managing the sensitive, often emotionally charged issues that arise as teams relive and learn from each project.

Ying-Kit Choi walks engineers through standard practices, basic principles, and design philosophy needed to prepare quality design and construction documents for a successful infrastructure project.

Project and Cost Engineers'
Handbook Marcel Dekker
The Engineer's Cost Handbook
Tools for Managing Project Costs
CRC Press

Green Construction Project
Management and Cost Oversight
Standard Handbook of Petroleum

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and Natural Gas Engineering:
Cost Engineering

A Guide to the Project
Management Body of Knowledge
(PMBOK® Guide) – Seventh
Edition and The Standard for
Project Management
(BRAZILIAN PORTUGUESE)
Site Reliability Engineering
Handbook for Process Plant
Project Engineers

A detailed and thorough reference
on the discipline and practice of
systems engineering The objective
of the International Council on
Systems Engineering (INCOSE)
Systems Engineering Handbook is
to describe key process activities
performed by systems engineers

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and other engineering professionals throughout the life cycle of a system. The book covers a wide range of fundamental system concepts that broaden the thinking of the systems engineering practitioner, such as system thinking, system science, life cycle management, specialty engineering, system of systems, and agile and iterative methods. This book also defines the discipline and practice of systems engineering for students and practicing professionals alike, providing an authoritative reference that is acknowledged worldwide. The latest edition of the INCOSE Systems Engineering Handbook: Is consistent with ISO/IEC/IEEE

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15288:2015 Systems and software engineering—System life cycle processes and the Guide to the Systems Engineering Body of Knowledge (SEBoK) Has been updated to include the latest concepts of the INCOSE working groups Is the body of knowledge for the INCOSE Certification Process This book is ideal for any engineering professional who has an interest in or needs to apply systems engineering practices. This includes the experienced systems engineer who needs a convenient reference, a product engineer or engineer in another discipline who needs to perform systems engineering, a new systems engineer, or anyone interested in

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learning more about systems engineering.

PMBOK® Guide is the go-to resource for project management practitioners. The project management profession has significantly evolved due to emerging technology, new approaches and rapid market changes. Reflecting this evolution, The Standard for Project Management enumerates 12 principles of project management and the PMBOK® Guide – Seventh Edition is structured around eight project performance domains. This edition is designed to address practitioners' current and future needs and to help them be more proactive, innovative and

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nimble in enabling desired project outcomes. This edition of the PMBOK® Guide:

- Reflects the full range of development approaches (predictive, adaptive, hybrid, etc.);
- Provides an entire section devoted to tailoring the development approach and processes;
- Includes an expanded list of models, methods, and artifacts;
- Focuses on not just delivering project outputs but also enabling outcomes; and
- Integrates with PMI Standards+™ for information and standards application content based on project type, development approach, and industry sector.

Project management is the key to any engineering and construction

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project's success. Now you can learn from the experts real-world tested strategies you can use to lead your projects to on-time, within budget, high quality success stories. Specifics of scheduling, cost estimating and leadership skills are fully detailed. The authors will show you how to organize your project from the very beginning to achieve success. You'll also learn to use win-win negotiation skills during each stage of your project. Real world examples will facilitate your understanding of how to apply every aspect of the material presented in the text. Loaded with forms, checklists and case studies, this invaluable reference is a must for everyone involved with

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engineering and construction projects.

For newly hired young engineers assigned to their first real 'project', there has been little to offer in the way of advice on 'where to begin', 'what to look out for and avoid', and 'how to get the job done right'. This book gives this advice from an author with long experience as senior engineer in government and industry (U.S. Army Corps of Engineers and Exxon-Mobil). Beginning with guidance on understanding the typical organizational structure of any type of technical firm or company, author Plummer incorporates numerous hands-on examples and provides help on getting started with a

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project team, understanding key roles, and avoiding common pitfalls. In addition, he offers unique help on first-time experiences of working in other countries with engineering cultures that can be considerably different from the US. Reviews essentials of management for any new engineer suddenly thrust into responsibility Emphasizes skills that can get you promoted—and pitfalls that can get you fired Expanded case study to show typical evolution of a new engineer handed responsibility for a major design project

Systems Lifecycle Cost-
Effectiveness

How to Select and Work Effectively
with Consulting Engineers

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The Engineer's Cost Handbook

Principles of Applied Civil

Engineering Design

A Practical Method for Sustainable

Profit Generation in Manufacturing

How Google Runs Production

Systems

This work focuses on the application of fundamental cost engineering principles to the capital and operating costs estimation of major projects. It provides detailed coverage of profitability, risk, and sensitivity analysis. This third edition: discusses novel strategies for calculating preliminary estimates using

MasterFormat; presents new information on estimating the retrofitting and extension of existing plants; contains current international cost data; and more.;A solutions manual is available to instructors only.

Find Practical Solutions to Civil Engineering Design and Cost Management Problems A guide to successfully designing, estimating, and scheduling a civil engineering project, Integrated Design and Cost Management for Civil Engineers shows how practicing professionals can

design fit-for-use solutions within established time frames and reliable budgets. This text combines technical compliance with practical solutions in relation to cost planning, estimating, time, and cost control. It incorporates solutions that are technically sound as well as cost effective and time efficient. It focuses on the integration of design and construction based on solid engineering foundations contained within a code of ethics, and navigates engineers through the complete

process of project design, pricing, and tendering. Well illustrated The book uses cases studies to illustrate principles and processes. Although they center on Australasia and Southeast Asia, the principles are internationally relevant. The material details procedures that emphasize the correct quantification and planning of works, resulting in reliable cost and time predictions. It also works toward minimizing the risk of losing business through cost blowouts or losing profits through

**underestimation. This Text
Details the Quest for
Practical Solutions That:
Are cost effective Can be
completed within a
reasonable timeline
Conform to relevant quality
controls Are framed within
appropriate contract
documents Satisfy ethical
professional procedures,
and Address the client's
brief through a structured
approach to integrated
design and cost
management Designed to
help civil engineers develop
and apply a multitude of
skill bases, Integrated
Design and Cost**

Management for Civil Engineers can aid them in maintaining relevancy in appropriate design justifications, guide work tasks, control costs, and structure project timelines. The book is an ideal link between a civil engineering course and practice. This brand-new book provides a thorough introduction to cost estimating in a self-contained print and online package. With clear explanations and a hands-on, example-driven approach, it is the ideal reference for students and

new professionals who need to learn how to perform cost estimating for building construction. With more than 930 Location Factors in the United States and Canada, the data includes up-to-date system prices for more than 100 standard assemblies and in-place costs for thousands of alternates making it easy to customize budget estimates and compare system costs. The book includes a free access code to the supplemental website with plans, specifications, problem sets, and a full

sample estimate.

Often referred to as the “black art” because of its complexity and uncertainty, software estimation is not as difficult or puzzling as people think. In fact, generating accurate estimates is straightforward—once you understand the art of creating them. In his highly anticipated book, acclaimed author Steve McConnell unravels the mystery to successful software estimation—distilling academic information and real-world experience into a practical guide for

working software professionals. Instead of arcane treatises and rigid modeling techniques, this guide highlights a proven set of procedures, understandable formulas, and heuristics that individuals and development teams can apply to their projects to help achieve estimation proficiency. Discover how to: Estimate schedule and cost—or estimate the functionality that can be delivered within a given time frame Avoid common software estimation mistakes Learn estimation

techniques for you, your team, and your organization * Estimate specific project activities—including development, management, and defect correction Apply estimation approaches to any type of project—small or large, agile or traditional Navigate the shark-infested political waters that surround project estimates When many corporate software projects are failing, McConnell shows you what works for successful software estimation.
Basic Cost Engineering,

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Third Edition

Program Affordability

Management and Cost

Control

Handbook of Green Building

Design and Construction

A Handbook for Team

Reviews

A Guide for System Life

Cycle Processes and

Activities

Software Estimation

*In today's hyper-competitive,
global marketplace, a
manufacturing company needs a
competitive edge if it is to survive
and grow. That edge could be
anything from superior
manufacturing technology to
innovative product design; from*

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patent protection to solid, well-established customer relationships. One competitive edge available to all manufacturers, but realized by only a few, is the ability to accurately measure, control, and optimize costs throughout a product's entire life cycle. The lack of a methodology to engineer cost optimization into every product makes attaining and maintaining profitability all that the more difficult. Cost Engineering provides a means for a manufacturer to achieve and sustain profitability by designing and manufacturing products to specific cost requirements. It incorporates a variety of proven methodologies including cost estimating, cost control, and cost

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optimization. Features: ? Describes the components and organization of an effective cost optimization process ? Provides detailed explanations of cost estimating techniques for many of the most common manufacturing processes ? Explains the selection and use of appropriate cost allocation methods ? Presents the fundamentals of cost-based negotiation ? Includes both proper and improper executions of cost engineering principles The details presented in this book are important to design engineers, manufacturing engineers, buyers, accountants, cost estimators, cost optimization specialists, and their managers and provides CEOs, COOs, general managers, product

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line managers, and plant managers with guidance on improving and sustaining profitability. .

Working as a recording engineer presents challenges from every direction of your project. From using microphones to deciding on EQ settings, choosing outboard gear to understanding how, when and why to process your signal, the seemingly never-ending choices can be very confusing. Professional Audio's bestselling author Bobby Owsinski (The Mixing Engineer's Handbook, The Mastering Engineer's Handbook) takes you into the tracking process for all manner of instruments and vocals--providing you with the knowledge and skill to make sense of the many

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choices you have in any given project. From acoustic to electronic instruments, mic placement to EQ settings, everything you need to know to capture professionally recorded audio tracks is in this guide.

The overwhelming majority of a software system's lifespan is spent in use, not in design or implementation. So, why does conventional wisdom insist that software engineers focus primarily on the design and development of large-scale computing systems? In this collection of essays and articles, key members of Google's Site Reliability Team explain how and why their commitment to the entire lifecycle has enabled the

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company to successfully build, deploy, monitor, and maintain some of the largest software systems in the world. You'll learn the principles and practices that enable Google engineers to make systems more scalable, reliable, and efficient—lessons directly applicable to your organization. This book is divided into four sections:

Introduction—Learn what site reliability engineering is and why it differs from conventional IT industry practices
Principles—Examine the patterns, behaviors, and areas of concern that influence the work of a site reliability engineer (SRE)

Practices—Understand the theory and practice of an SRE's day-to-day work: building and operating

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large distributed computing systems Management—Explore Google's best practices for training, communication, and meetings that your organization can use

Providing a sequence of steps for matching cost engineering needs with helpful computer tools, this reference addresses the issues of project complexity and uncertainty; cost estimation, scheduling, and cost control; cost and result uncertainty; engineering and general purpose software; utilities th

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