To date, both internal and external corporate environmental reporting...
and management systems have focused on physical input–output measures. However, external stakeholders are increasingly demanding that organisations provide more financial information about the costs and benefits of their environmental actions. As environmental costs rise, internal decision-makers are also seeking such information to ensure that money is well spent. Beyond basic compliance, many companies will not countenance environmental actions for which a "business case" cannot be made. A number of companies – such as Baxter, BT, Xerox, Zeneca and others – are now beginning to develop a better understanding of the costs and benefits of environmental action. The US Environmental Protection Agency has also done considerable work on models designed to understand the "full costs" of pollution control investments, with the aim of demonstrating that – when these are properly considered – pollution prevention can be a more cost-effective alternative. The Green Bottom Line brings together much of the world's leading research and best-practice case studies on the topic. Divided into four sections, covering "General Concepts", "Empirical Studies", "Case Studies" and "Implementation", the book includes case studies from the US EPA's Environment Accounting Programme and contributions from authors at institutions including the IMD, INSEAD, Tellus Institute and the World Resources Institute. It constitutes a state-of-the-art collection.

The financing of modern construction projects reflects the need to address the costs and benefits of the whole life of the project. This means that end of life economics can now have a far greater impact on the planning and feasibility phases. During the project itself, decisions on construction materials and processes all influence the schedule as well as both immediate and down-the-line costs. Massimo Pica and his co-authors explain in detail the fundamentals of project life cycle economics and how they apply in the context of complex modern construction. This is an essential guide for those involved in construction project design, tendering and contracting; to help ensure the sustainability of the project or their contribution to it, from the start. It is also important for those involved in the delivery of the project to help them make the choices to keep the project on a financial even keel. Government, corporations and other organizations are looking for new models of collaborative working to fund their large construction and infrastructure projects in the face of changing attitudes to risk; a better educated and more demanding base of end-user clients and the increasing requirements for projects that are environmentally responsible and sustainable. Project Life Cycle
Economics is a fundamental primer for those commissioning and those delivering construction. Sustainability has become an increasingly vital topic of discussion in modern society. Various businesses and their professionals have begun adopting environmentally friendly practices and continue to search for new ways to incorporate sustainability into their protocol. Managerial Strategies and Green Solutions for Project Sustainability is an essential reference source for the latest scholarly research on core concepts of project sustainability and its applications. Featuring extensive coverage on a broad range of topics and perspectives, such as energy systems, climate change, and human capital, this publication is ideally designed for managers, researchers, and students seeking current information on structured managerial strategies for planning, executing, and assessing project sustainability performance.

The Cost Engineering journal is a peer reviewed professional technical journal published by AACE International, the Authority for Total Cost Management. During the year, the journal is published as a bi-monthly digital member benefit product. This is a combined print issue of all six journals from 2017.

Project Performance Review focuses on evaluating projects efficiently and in context, identifying important improvement opportunities and leading project and organizational management practices. It advises how these can be put in place to give stakeholders confidence in the control and delivery of their projects without waste. The authors explain not just the mechanism and objective of project performance reviews but also the ideal environment in which they are intended to be implemented. The shaping of this environment, by the stakeholders and technical team, is key to achieving your intended outcomes. Without the professional cooperation of all interested and informed parties, the effectiveness of any review may be compromised. Topics addressed include: introducing the project review method, engaging project stakeholders, ensuring project governance, conducting project risk assessments, improving accountability, providing project assurance, organizing and managing projects, optimizing review scope and approach, avoiding review pitfalls, meeting existing audit standards, and proposing alternate approaches to project evaluation.
The proper understanding and managing of project risks and uncertainties is crucial to any organization. It is of paramount importance at all phases of project development and execution to avoid poor project results from meager economics, overspending, reputation and environmental damage, and even loss of life. The Handbook of Research on Leveraging Risk and Uncertainties for Effective Project Management is a comprehensive reference source for emerging perspectives of managing risks associated with the execution and development of projects. Highlighting innovative coverage written by top industry specialists, such as complexity theory, psychological bias and risk management fallacies, probabilistic risk analysis, and various aspects of project decision making, this book is ideally designed for project and risk managers, project engineers, cost estimators, schedulers, safety and environmental protection specialists, corporate planners, financial and insurance specialists, corporate decision makers, as well as academics and lecturers working in the area of project management and students pursuing PMP, PMI-RMP, ISO 31000, etc. certification.

To satisfy demands for software systems that collect, organize and utilize pollution prevention auditing, design and implementation, hundreds of software companies have developed and are marketing software systems that perform these functions. Co

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

A Textbook of Cost and Management Accounting provides the students with thorough grounding in cost concepts, cost behaviour and methods, and techniques of cost and management accounting with an understanding of the uses and limitations of cost and financial data for managerial operations. The text of the subject matter has been presented in a student-friendly, simple and intelligible manner. Every discussion involving conceptual complexity is immediately illustrated by a numerical example. In addition, the book contains a liberal sprinkling of charts and diagrams so as to make the subject easily understandable and highlight its finer points. The subject matter has been organized on 'first things first'.
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The approach of the book is examination oriented. Thus, a good number of problems and solutions have been included in its chapters. Theoretical and numerical questions have been mostly selected from various examinations. Objective type questions have been given to serve as self-test by students. This is an ideal book for self study. New to this edition:

• All chapters thoroughly revised
• Latest information on Cost Accounting Standards (CAS) issued by the Institute of Cost Accountants of India (ICAI)
• Chapter on ‘Miscellaneous Topics’ made more contemporary by including some new sub-topics, and thus re-named ‘Advanced Cost Management Techniques’
• Revision and augmentation of practical problems

Innovation and cost management are the key requirements for companies to survive the current global economic crisis. Cost management not only leads to incremental performance improvement but also to transformational change across the value chain. Cost management is viewed as part of a larger business process to influence decisions on pricing and profitability across several dimensions: product, customer, region, and distribution channel. In this book you can learn how your costing process aligns with industry best practices, and be on the leading edge of emerging practices such as value chain costing, shared services costing and outsourcing. This book also tells us how cost management and accounting are being put into practice.

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An all-inclusive, ideal book for self-study, both for the students of Cost and Management Accounting as well as working professionals.

Project Risk Quantification presents the most practical, realistic, and integrated approach to project cost and schedule Risk Quantification that is available today. It offers proven, empirically-valid methods and tools applicable to projects of all types and at all decision gates. The text is written for both the manager and the risk analysis practitioner. It will bring reliable accuracy and contingency determination to your capital project organization.

The Practice Standard for Project Risk Management covers risk management as it is applied to single projects only. It does not cover risk in programs or portfolios. This practice standard is consistent with the PMBOK® Guide and is aligned with other PMI practice standards. Different projects, organizations and situations require a variety of approaches to risk management and there are several specific ways to conduct risk management that are in agreement with principles of Project Risk Management as presented in this practice standard.

Skills & Knowledge of Cost Engineering, 5th edition revised, is a product of the Education Board of AACE International, the Association for the Advancement of Cost Engineering International (www.aacei.org). This book is the body of knowledge for teaching the basic skills and knowledge any cost engineer should possess. AACE International is a non-profit association whose members are primarily cost engineers, cost estimators, planners and schedulers, and related disciplines. AACE International offers testing and several certifications in related discipline areas. This book includes educational material useful in the association's certification preparation process. For additional information, visit the AACE International website at www.aacei.org.

The AACE International CCP Certification Study Guide, 2nd Edition is designed as a companion workbook to the Skills and Knowledge of Cost Engineering, 6th Edition (S&K 6). In conjunction with S&K 6, this study guide will assist individuals in their preparation for the CCP Certification examination as well as develop the general knowledge a cost engineering professional is expected to have. This study guide offers insight into the skills and knowledge that are critical for success in the field of cost engineering.
Total cost management (TCM) is the effective application of professional and technical expertise to plan and control resources, costs, profitability and risk. Simply stated, TCM is a systematic approach to managing costs throughout the life cycle of any enterprise, program, facility, project, product or service. The TCM Framework is a representation of that ‘systematic approach.’ The TCM Framework is a structured, annotated process map that for the first time explains each practice area of the cost engineering field in the context of its relationship to the other practice areas including allied professions. As the book subtitled says, it is a process for applying the skills and knowledge of cost engineering. A key feature of the TCM Framework is that it highlights and differentiates the main cost management application areas: project control and strategic asset management. The TCM Framework is a significant, original contribution to the cost management profession applicable to all industries. It is an AACE International cornerstone technical document that joins the current body of knowledge literature for related fields such as project management, operations management, and management accounting. It is also consistent with the latest organizational and portfolio thinking which ties all practices and processes back to overall business strategies and objectives. As a “framework,” this document is not a “how-to” instructional guide, but a conceptual representation that provides a structured, integrated overview of cost engineering.

Communication is a vital part of project management, and reports are one of the preferred vehicles for transmitting information to an intended internal or external audience. Reports are also part of the system of control and governance on projects, used to bring attention to issues and prompt action to improve project outcomes. There are countless ways of combining project information for consumption by stakeholders. This book discusses the purpose of project reports, and provides examples of the format, content, timing, and audience for various types. Using principles of stakeholders and risk management, it presents a rationale for communication plans, enabling appropriate reporting at the project, program, and portfolio level. The author also: presents tangible experience and suggestions for developing project reports, discusses project reports in context, as applicable to types of stakeholders and the
project lifecycle, identifies sources and types of data required for adequate reporting, offers examples of report formats, graphics, and content, and reflects on typical challenges encountered with project reporting. It is essential reading for practitioners and students of project management, cost control and accountancy.

Project managers tend to believe their cost estimates - whether they have exceeded budgets in the past or not. It is dangerous to accept the engineering cost estimates, which are often optimistic or unrealistic. Though cost estimates incorporate contingency reserves below-the-line, these estimates of reserves often do not benefit from a rigorous assessment of risk to project costs. Risks to cost come from multiple sources including uncertain project duration, which is often ignored in cost risk analyses. In short, experience shows that cost estimating on projects is rarely successful - cost overruns routinely occur. There are effective ways to estimate the impact on the cost of complex projects from project risks of all types, including traditional cost-type risks and the indirect but often substantial impact from risks usually thought of as affecting project schedules. Integrated cost-schedule risk analysis helps us determine how likely the project will go over budget with the current plan, how much contingency reserve is required to achieve a desired level of certainty, and which risks are most important so the project manager can mitigate them and achieve a better result. Integrated Cost-Schedule Risk Analysis provides solutions for these and other challenges. This book follows on from David Hulett's highly-praised Practical Schedule Risk Analysis. It focuses on the way that schedule risk can generate cost risk, and how to handle this relationship. It also applies the Risk Driver Method to the analysis so that you can clearly and transparently identify the key risks, rather than just the most risky cost line items. With detailed worked examples and over 70 illustrations, Integrated Cost-Schedule Risk Analysis offers the definitive guide to this critically important aspect of project management from surely the world's leading commentator.

Project Performance Review focuses on evaluating projects efficiently and in context, identifying important improvement opportunities and leading project and organizational management practices. It advises how...
these can be put in place to give stakeholders confidence in the control and delivery of their projects without waste. The authors explain not just the mechanism and objective of project performance reviews but also the ideal environment in which they are intended to be implemented. The shaping of this environment, by the stakeholders and technical team, is key to achieving your intended outcomes. Without the professional cooperation of all interested and informed parties, the effectiveness of any review may be compromised. Topics addressed include: introducing the project review method, engaging project stakeholders, ensuring project governance, conducting project risk assessments, improving accountability, providing project assurance, organizing and managing projects, optimizing review scope and approach, avoiding review pitfalls, meeting existing audit standards, and proposing alternate approaches to project evaluation.

This book offers a new way of thinking about the causes and consequences of cost overrun to firms and society. It is ideal for academic researchers in project management, management accounting and corporate finance, as well as for managers in the private and public sectors.

AACE International's Certified Estimating Professional (CEP) Certification Study Guide, 2nd edition, summarizes the recommended study areas that candidates should review in preparing to take this AACE certification examination. The intent of the study guide is to assemble and summarize various topics considered essential for CEP knowledge, as outlined in AACE Recommended Practice 11R-88, Required Skills and Knowledge of Cost Engineering, and included in the current edition of AACE's Skills and Knowledge of Cost Engineering and the Total Cost Management (TCM) Framework.

Product Description Exam Number/Code: CCE-CCC
Exam Number/Code: CCE-CCC
Name of the Exam: Certified Cost Consultant / Cost Engineer (AACE International)
Number of the Questions: 115 Questions (The new Questions as well as the Answers are included)
Version/Edition: Latest (100% valid and stable)
Success Rate: 100%

AACE International is proud to offer Skills and Knowledge of Cost Engineering, 6th Edition. This Education Board publication provides comprehensive and in-depth information on a wide range of cost engineering topics. It is designed to help candidates prepare for the Certified Cost Consultant / Cost Engineer (AACE International) examination. The guide covers essential topics such as cost estimation, project management, risk assessment, and performance measurement. With its extensive coverage, this study guide is an invaluable resource for anyone looking to advance their career in the field of cost engineering.
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Safety and Reliability – Theory and Applications contains the contributions presented at the 27th European Safety and Reliability Conference (ESREL 2017, Portorož, Slovenia, June 18-22, 2017). The book covers a wide range of topics, including:

- Accident and Incident modelling
- Economic Analysis in Risk Management
- Foundational Issues in Risk Assessment and Management
- Human Factors and Human Reliability
- Maintenance Modeling and Applications
- Mathematical Methods in Reliability and Safety
- Prognostics and System Health Management
- Resilience Engineering
- Risk Assessment
- Risk Management
- Simulation for Safety and Reliability Analysis
- Structural Reliability
- System Reliability, and
- Uncertainty Analysis.

Selected special sessions include contributions on:

- the Marie Skłodowska-Curie innovative training network in structural safety
- risk approaches in insurance and finance sectors
- dynamic reliability and probabilistic safety assessment
- Bayesian and statistical methods, reliability data and testing
- organizational factors and safety culture
- software reliability and safety
- probabilistic methods applied to power systems
- socio-technical-economic systems
- advanced safety assessment methodologies: extended Probabilistic Safety Assessment
- reliability; availability; maintainability and safety in railways: theory & practice
- big data risk analysis and management, and model-based reliability and safety engineering.

Safety and Reliability – Theory and Applications will be of interest to professionals and academics working in a wide range of industrial and governmental sectors including:

- Aeronautics and Aerospace
- Automotive Engineering
- Civil Engineering
- Electrical and Electronic Engineering
- Energy Production and Distribution
- Environmental Engineering
- Information Technology and Telecommunications
- Critical Infrastructures
- Insurance and Finance
- Manufacturing
- Marine Industry
- Mechanical Engineering
- Natural Hazards
- Nuclear Engineering
- Offshore Oil and Gas
- Security and Protection
- Transportation
- Policy Making.

The new fifth edition of Information Technology Control and Audit has been significantly revised to include a comprehensive overview of the IT environment, including revolutionizing technologies, legislation, audit process, governance, strategy, and outsourcing, among others. This new edition also outlines common IT audit risks, procedures, and involvement associated with major IT audit areas. It further provides cases featuring practical IT audit scenarios, as well as sample documentation to design and perform actual IT audit work. Filled with up-to-date audit concepts,
Project management is at a crossroads: There is a pressing need to rethink the approaches used in initiating, managing and governing projects, programmes and change initiatives. The aim of this book is to progress the dialogue around project practice by shifting the focus from instrumental methods and prescriptive techniques towards a context-sensitive consideration of people, strategy and change. Projects are initiated to deliver agreed outputs that can be translated into meaningful outcomes capable of satisfying the wishes and expectations for improvement and development. Yet, people, strategy and change, which are largely ignored by the conventional bodies of knowledge, are clearly central to the sustainable and enduring success of projects, efforts and initiatives. The volume brings together some of the best writing by leading authorities on key topics including trust, ethics, people, psychology, requirements, project performance, audits, uncertainty, anti-fragility, strategic initiatives, governance, change management and commercial management. The collection offers an invaluable new resource for informed managers looking to engage with the latest thinking and research.

This overview of project finance for the oil and gas industry covers financial markets, sources and providers of finance, financial structures, and capital raising processes. About US$300 billion of project finance debt is raised annually across several capital intensive sectors—including oil and gas, energy, infrastructure, and mining—and the oil and gas industry represents around 30% of the global project finance market. With over 25 year’s project finance experience in international banking and industry, author Robert Clews explores project finance techniques and their effectiveness in the petroleum industry. He highlights the petroleum industry players, risks, economics, and commercial/legal...
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Arrangements. With petroleum industry projects representing amongst the largest industrial activities in the world, this book ties together concepts and tools through real examples and aims to ensure that project finance will continue to play a central role in bringing together investors and lenders to finance these ventures. Combines the theory and practice of raising long-term funding for capital intensive projects with insights about the appeal of project finance to the international oil and gas industry. Includes case studies and examples covering projects in the Arctic, East Africa, Latin America, North America, and Australia. Emphasizes the full downstream value chain of the industry instead of limiting itself to upstream and pipeline project financing. Highlights petroleum industry players, risks, economics, and commercial and legal arrangements.

The key to successful project control is the fusing of cost to schedule where the management of one helps to manage the other. Project Control: Integrating Cost and Schedule in Construction explores the reasons behind and the methodologies for proper planning, monitoring, and controlling both project costs and schedule. Filling a current void the topic of project control applied to the construction industry, it is essential reading for students and professionals alike. This volume compiles the work coordinated by the Scheduling Excellence Initiative Committee (SEI) to improve standardization and provide best practice guidelines for scheduling processes in the construction industry. It serves as a guide for all schedulers and planners from entry level to senior schedulers, as well as non-schedulers in management roles.

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