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Proceedings of the ... International Workshop on Software and Performance - 1998

Financial Feasibility Studies for

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Property Development - Tim Havard 2013-10-30

Essential for any real estate professional or student performing feasibility studies for property development using Microsoft Excel and two of the most commonly used proprietary software systems, Argus Developer and Estate Master DF. This is the first book to not only review the place of financial feasibility studies in the property development process, but to examine both the theory and mechanics of feasibility studies through the construction of user friendly examples using these software systems. The development process has seen considerable changes in practice in recent years as developers and advisors have adopted modern spread sheets and software models to carry out feasibility studies and appraisals. This has greatly extended their ability to model more complex developments and more sophisticated funding arrangements, saving time and improving accuracy. Tim Havard brings over 25 years of industry and software experience to guide students and practitioners through the theory of development appraisals and feasibility studies before providing internationally applicable worked examples and potential pitfalls using Excel, Argus Developer and

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Estates Master DF.

A Brief User's Guide to the Excel® -Based DF Calculator - 2015

To understand the importance of capturing penetrating forms of iodine as well as the other volatile radionuclides, a calculation tool was developed in the form of an Excel® spreadsheet to estimate the overall plant decontamination factor (DF). The tool requires the user to estimate splits of the volatile radionuclides within the major portions of the reprocessing plant, speciation of iodine and individual DFs for each off-gas stream within the Used Nuclear Fuel reprocessing plant. The Impact to the overall plant DF for each volatile radionuclide is then calculated by the tool based on the specific user choices. The Excel® spreadsheet tracks both elemental and penetrating forms of iodine separately and allows changes in the speciation of iodine at each processing step. It also tracks 3H, 14C and 85Kr. This document provides a basic user's guide to the manipulation of this tool.

Energy Research Abstracts - 1993

Semiannual, with semiannual and annual indexes. References to all scientific and technical literature coming from DOE, its laboratories, energy centers, and contractors. Includes all

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works deriving from DOE, other related government-sponsored information, and foreign nonnuclear information. Arranged under 39 categories, e.g., Biomedical sciences, basic studies; Biomedical sciences, applied studies; Health and safety; and Fusion energy. Entry gives bibliographical information and abstract. Corporate, author, subject, report number indexes.

Characterization and Properties of Petroleum Fractions - M. R. Riazi 2005

The last three chapters of this book deal with application of methods presented in previous chapters to estimate various thermodynamic, physical, and transport properties of petroleum fractions. In this chapter, various methods for prediction of physical and thermodynamic properties of pure hydrocarbons and their mixtures, petroleum fractions, crude oils, natural gases, and reservoir fluids are presented. As it was discussed in Chapters 5 and 6, properties of gases may be estimated more accurately than properties of liquids. Theoretical methods of Chapters 5 and 6 for estimation of thermophysical properties generally can be applied to both liquids and gases; however, more accurate properties can be predicted through empirical correlations particularly

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developed for liquids. When these correlations are developed with some theoretical basis, they are more accurate and have wider range of applications. In this chapter some of these semitheoretical correlations are presented. Methods presented in Chapters 5 and 6 can be used to estimate properties such as density, enthalpy, heat capacity, heat of vaporization, and vapor pressure. Characterization methods of Chapters 2-4 are used to determine the input parameters needed for various predictive methods. One important part of this chapter is prediction of vapor pressure that is needed for vapor-liquid equilibrium calculations of Chapter 9.

EPA Publications Bibliography - 2000

Managing Measurement Risk in Building and Civil Engineering - Peter Williams 2015-12-14

Offers quantity surveyors, engineers, building surveyors and contractors clear guidance on how to recognise and avoid measurement risk. The book recognises the interrelationship of measurement with complex contractual issues; emphasises the role of measurement in the entirety of the contracting process; and helps to widen the accessibility of measurement beyond the province of the

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professional quantity surveyor. For the busy practitioner, the book includes: Detailed coverage of NRM1 and NRM2, CESMM4, Manual of Contract Documents for Highway Works and POM(I) Comparison of NRM2 with SMM7 Detailed analysis of changes from CESMM3 to CESMM4 Coverage of the measurement implications of major main and sub-contract conditions (JCT, NEC3, Infrastructure Conditions and FIDIC) Definitions of 5D BIM and exploration of BIM measurement protocols Considerations of the measurement risk implications of both formal and informal tender documentation and common methods of procurement An identification of pre- and post-contract measurement risk issues Coverage of measurement risk in claims and final accounts Detailed worked examples and explanations of computer-based measurement using a variety of industry-standard software packages.

Scientific Basis for Nuclear Waste Management XXIII: Volume 608 - Robert W. Smith 2000-10-09

This long-standing symposia series has become the premier, international forum for scientific and engineering issues related to all levels and types of radioactive wastes and their

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management. Topics include: fuel cladding and spent nuclear fuel; container fabrication and corrosion; performance assessment; repository performance; radionuclide sorption and transport; cement-based materials and waste containment; corrosion of ceramic wasteforms; structure and characterization of ceramics; radiation effects; natural analogs; wasteform characterization and processing; and corrosion and characterization of glass wasteforms.

Chemical Engineering Design - Gavin Towler 2012-01-25

Chemical Engineering Design, Second Edition, deals with the application of chemical engineering principles to the design of chemical processes and equipment. Revised throughout, this edition has been specifically developed for the U.S. market. It provides the latest US codes and standards, including API, ASME and ISA design codes and ANSI standards. It contains new discussions of conceptual plant design, flowsheet development, and revamp design; extended coverage of capital cost estimation, process costing, and economics; and new chapters on equipment selection, reactor design, and solids handling processes. A rigorous pedagogy assists learning, with detailed

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worked examples, end of chapter exercises, plus supporting data, and Excel spreadsheet calculations, plus over 150 Patent References for downloading from the companion website. Extensive instructor resources, including 1170 lecture slides and a fully worked solutions manual are available to adopting instructors. This text is designed for chemical and biochemical engineering students (senior undergraduate year, plus appropriate for capstone design courses where taken, plus graduates) and lecturers/tutors, and professionals in industry (chemical process, biochemical, pharmaceutical, petrochemical sectors). New to this edition: Revised organization into Part I: Process Design, and Part II: Plant Design. The broad themes of Part I are flowsheet development, economic analysis, safety and environmental impact and optimization. Part II contains chapters on equipment design and selection that can be used as supplements to a lecture course or as essential references for students or practicing engineers working on design projects. New discussion of conceptual plant design, flowsheet development and revamp design Significantly increased coverage of capital cost estimation, process costing

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and economics New chapters on equipment selection, reactor design and solids handling processes New sections on fermentation, adsorption, membrane separations, ion exchange and chromatography Increased coverage of batch processing, food, pharmaceutical and biological processes All equipment chapters in Part II revised and updated with current information Updated throughout for latest US codes and standards, including API, ASME and ISA design codes and ANSI standards Additional worked examples and homework problems The most complete and up to date coverage of equipment selection 108 realistic commercial design projects from diverse industries A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data and Excel spreadsheet calculations plus over 150 Patent References, for downloading from the companion website Extensive instructor resources: 1170 lecture slides plus fully worked solutions manual available to adopting instructors

Construction Quantity Surveying - Donald Towey 2012-05-18 The modern quantity surveyor (QS) plays a central role in the management of construction

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projects, although the exact nature of the role depends on who employs the QS. The Professional Quantity Surveyor engaged by the client and the Contractor's Quantity Surveyor have different roles to play in any construction project, with the contractor's QS role extending beyond measurement to the day-to-day running of building projects, estimating, contract administration and construction planning, as well as commercial, cost and project management. This book aims to provide readers with a practical guide into quantity surveying from a main contractor's perspective. Readers will acquire an understanding of the skills and competencies required by the contractor's quantity surveyor. Following a brief introduction, the book's early chapters cover measurement methodology and the contractor's business, with the rest of the chapters discussing commercial and contractual management of a construction project, including day-to-day running from commencement through to completion, in a highly practical way.

Fundamentals of Construction Estimating - David Pratt 2011

An international edition of this product is available for sale overseas and in international markets.

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SUBERWOOD - Arantzazu González-Pérez 2021-07-14

Este libro actualiza los conocimientos e investigaciones que se realizan en torno al alcornoque a nivel internacional desde un punto de vista integrador desde las perspectivas del árbol, el sistema en el que éste se integra y los productos que de él se generan. El libro está integrado por 42 aportaciones organizadas en 7 capítulos que comprenden la ecofisiología y genética de la especie, los modelos de crecimiento y producción, la regeneración y selvicultura, los aspectos sanitarios, la gestión multiobjetivo y sostenibilidad de los alcornocales, la producción y calidad de madera y corcho, así como aspectos relacionados con la innovación y generación de nuevos productos.

Combustion and Incineration Processes - Walter R. Niessen 2010-06-22

In our "throwaway" society, with landfills filled to capacity, interest in incineration- and conversion-based waste management technologies continues to grow. Increasing net waste generation rates within U.S. metropolitan centers, skyrocketing transportation costs for waste hauling, and the enticement of increased electrical revenues from "green" p

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The Encyclopedia of Volcanoes - Haraldur Sigurdsson 2015-03-06

Volcanoes are unquestionably one of the most spectacular and awe-inspiring features of the physical world. Our paradoxical fascination with them stems from their majestic beauty and powerful, sometimes deadly, destructiveness. Notwithstanding the tremendous advances in volcanology since ancient times, some of the mystery surrounding volcanic eruptions remains today. The Encyclopedia of Volcanoes summarizes our present knowledge of volcanoes; it provides a comprehensive source of information on the causes of volcanic eruptions and both the destructive and beneficial effects. The early chapters focus on the science of volcanism (melting of source rocks, ascent of magma, eruption processes, extraterrestrial volcanism, etc.). Later chapters discuss human interface with volcanoes, including the history of volcanology, geothermal energy resources, interaction with the oceans and atmosphere, health aspects of volcanism, mitigation of volcanic disasters, post-eruption ecology, and the impact of eruptions on organismal biodiversity. Provides the only comprehensive reference work

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to cover all aspects of volcanology Written by nearly 100 world experts in volcanology Explores an integrated transition from the physical process of eruptions through hazards and risk, to the social face of volcanism, with an emphasis on how volcanoes have influenced and shaped society Presents hundreds of color photographs, maps, charts and illustrations making this an aesthetically appealing reference Glossary of 3,000 key terms with definitions of all key vocabulary items in the field is included

Increasing Productivity of Intensive Rice Systems Through Site-Specific Nutrient Management - A. Dobermann (Ed) 2004

Design Economics for the Built Environment - Herbert Robinson 2015-03-26

The drive towards environmentally friendly buildings and infrastructure has led to a growing interest in providing design solutions underpinned by the core principles of sustainability to balance economic, social and environmental factors. Design Economics for the Built Environment: Impact of sustainability on project evaluation presents new directions, reflecting the need to recognise the impact of climate

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change and the importance of sustainability in project evaluation. The aim is to provide a new approach to understanding design economics in the context of the changing policy environment, legislative and regulatory framework, and increasing economic, environmental and social pressure as result of the sustainability agenda. The book follows a structured approach from theories and principles in the earlier chapters, to the practical applications and emerging techniques focusing on value and social, economic and environmental considerations in making design decisions. It starts with the policy context, building on various theories and principles such as, capital cost, value of design and resource-based theories, the new rules of measurement (NRM) to explore cost planning, the relationship between height and costs, key socio-economic and environmental variables for design appraisal, eco-cost/value ratio (EVR), whole life theory and the treatment of carbon emission as external costs, productivity and efficiency, fiscal drivers and legal framework for carbon reduction, procurement and allocation of risks in contracts. Case studies, practical examples and frameworks throughout reinforce

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theories and principles and relate them to current practice. The book is essential reading for postgraduate students in architecture, building and quantity surveying and is also a valuable resource for academics, consultants and policy-makers in the built environment.

Construction Quantity Surveying - Donald Towey 2017-09-05

The revised and updated comprehensive resource for Quantity Surveyors working with a construction contractor The second edition of Construction Quantity Surveying offers a practical guide to quantity surveying from a main contractor's perspective. This indispensable resource covers measurement methodology (including samples using NRM2 as a guide), highlights the complex aspects of a contractor's business, reviews the commercial and contractual management of a construction project and provides detailed and practical information on running a project from commencement through to completion. Today’s Quantity Surveyor (QS) plays an essential role in the management of construction projects, although the exact nature of the role depends on who employs the QS. The QS engaged by the client and the contractor's QS have different

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parts to play in any construction project, with the contractor's QS role extending beyond traditional measurement activities, to encompass day-to-day tasks of commercial building activities including estimating, contract administration, and construction planning, as well as cost and project management. This updated and practical guide: Focuses on the application, knowledge and training required of a modern Quantity Surveyor Clearly shows how Quantity Surveying plays an essential central role within the overall management of construction projects Covers measurement methodology, the key elements of the contractor's business and the commercial and contractual management of a construction project The construction industry changes at fast pace meaning the quantity surveyor has a key role to play in the successful execution of construction projects by providing essential commercial input. Construction Quantity Surveying meets this demand as an up-to-date practical guide that includes the information needed for a Quantity Surveyor to perform at the highest level. It clearly demonstrates that quantity surveying is not limited to quantifying trade works and shows it as an important aspect of commercial and project

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management of construction projects.

Rainfall-Induced Soil Slope Failure - Lulu Zhang 2018-09-03

Rainfall-induced landslides are common around the world. With global climate change, their frequency is increasing and the consequences are becoming greater. Previous studies assess them mostly from the perspective of a single discipline—correlating landslides with rainstorms, geomorphology and hydrology in order to establish a threshold prediction value for rainfall-induced landslides; analyzing the slope's stability using a geomechanical approach; or assessing the risk from field records. Rainfall Induced Soil Slope Failure: Stability Analysis and Probabilistic Assessment integrates probabilistic approaches with the geotechnical modeling of slope failures under rainfall conditions with unsaturated soil. It covers theoretical models of rainfall infiltration and stability analysis, reliability analysis based on coupled hydro-mechanical modelling, stability of slopes with cracks, gravels and spatial heterogenous soils, and probabilistic model calibration based on measurement. It focuses on the uncertainties involved with rainfall-induced landslides and presents state-

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of-the art techniques and methods which characterize the uncertainties and quantify the probabilities and risk of rainfall-induced landslide hazards. Additionally, the authors cover: The failure mechanisms of rainfall-induced slope failure Commonly used infiltration and stability methods The infiltration and stability of natural soil slopes with cracks and colluvium materials Stability evaluation methods based on probabilistic approaches The effect of spatial variability on unsaturated soil slopes and more

Combined Cycle Systems for Near-Zero Emission Power Generation - Ashok D Rao 2012-04-12

Combined cycle power plants are one of the most promising ways of improving fossil-fuel and biomass energy production. The combination of a gas and steam turbine working in tandem to produce power makes this type of plant highly efficient and allows for CO2 capture and sequestration before combustion. This book provides a comprehensive review of the design, engineering and operational issues of a range of advanced combined cycle plants. After introductory chapters on basic combined cycle power plant and advanced gas turbine design, the book reviews the main

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types of combined cycle system. Chapters discuss the technology, efficiency and emissions performance of natural gas-fired combined cycle (NGCC) and integrated gasification combined cycle (IGCC) as well as novel humid air cycle, oxy-combustion turbine cycle systems. The book also reviews pressurised fluidized bed combustion (PFBC), externally fired combined cycle (EFCC), hybrid fuel cell turbine (FC/GT), combined cycle and integrated solar combined cycle (ISCC) systems. The final chapter reviews techno-economic analysis of combined cycle systems. With its distinguished editor and international team of contributors, Combined cycle systems for near-zero emission power generation is a standard reference for both industry practitioners and academic researchers seeking to improve the efficiency and environmental impact of power plants. Provides a comprehensive review of the design, engineering and operational issues of a range of advanced combined cycle plants Introduces basic combined cycle power plant and advanced gas turbine design and reviews the main types of combined cycle systems Discusses the technology, efficiency and emissions performance of

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natural gas-fired combined cycle (NGCC) systems and integrated gasification combined cycle (IGCC) systems, as well as novel humid air cycle systems and oxy-combustion turbine cycle systems

Operations and Supply Chain Management - Roberta S. Russell 2023-05-16

Help your students develop the skills needed to make informed business decisions. Appropriate for all business students, Operations and Supply Chain Management, 11th Edition provides a foundational understanding of operations management processes while ensuring the quantitative topics and mathematical applications are easy for students to understand. Teach your students how to analyze processes, ensure quality, manage the flow of information and products, create value along the supply chain in a global environment, and more.

Petroleum Refining Design and Applications Handbook, Volume 5 - A. Kayode Coker 2023-06-22

PETROLEUM REFINING With no new refineries having been built in decades, companies continue to build onto or reverse engineer and re-tool existing refineries. With so many changes in the last few years alone, books like this are very much in need. There is

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truly a renaissance for chemical and process engineering going on right now across multiple industries. This fifth and final volume in the “Petroleum Refining Design and Applications Handbook” set, this book continues the most up-to-date and comprehensive coverage of the most significant and recent changes to petroleum refining, presenting the state-of-the-art to the engineer, scientist, or student. Besides the list below, this groundbreaking new volume describes blending of products from the refinery, applying the ternary diagrams and classifications of crude oils, flash point blending, pour point blending, aniline point blending, smoke point and viscosity blending, cetane and diesel indices. The volume further reviews refinery operational cost, cost allocation of actual usage, project and economic evaluation involving cost estimation, cash flow involving return on investment, net present values, discounted cash flow rate of return, net present values, payback period, inflation and sensitivity analysis, and so on. It reviews global effects on the refining economy, carbon tax, carbon foot print, global warming potential, carbon dioxide equivalent, carbon credit, carbon offset, carbon price, and so on. It reviews

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sustainability in petroleum refining and alternative fuels (biofuels and so on), impact of the overall greenhouse effects, carbon capture and storage in refineries, process intensification in biodiesel, biofuel from green diesel, acid-gas removal and emerging technologies, carbon capture and storage, gas heated reformer unit, pressure swing adsorption process, steam methane reforming for fuel cells, grey, blue and green hydrogen production, new technologies for carbon capture and storage, carbon clean process design, refinery of the future, refining and petrochemical industry characteristics. The text is packed with Excel spreadsheet calculations and Honeywell UniSim Design software in some examples, and it includes an invaluable glossary of petroleum and petrochemical technical terminologies. Useful as a textbook, this is also an excellent, handy go-to reference for the veteran engineer, a volume no chemical or process engineering library should be without. Written by one of the world's foremost authorities, this book sets the standard for the industry and is an integral part of the petroleum refining renaissance. It is truly a must-have for any practicing engineer or student in this area.

The Variscan Orogeny - K.

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Schulmann 2014-07-28

This volume summarizes the state of the art of Variscan geology from Iberia to the Bohemian Massif. The European Variscan belt consists of two orogens: the older, northern and the younger, southern. The northern Variscan realm was dominated by Late Devonian–Carboniferous rifting, subduction and collisional events as defined by sedimentary records, crustal growth, recycling of continental crust and large-scale deformations. In contrast, the southern European crust was reworked by major Late Carboniferous collision followed by Permian wrenching. The Late Carboniferous–Permian orogeny overprinted the previously accreted system in the north, but with much lower intensity, resulting in magmatic recycling and extensional tectonics. These two main orogenic cycles do not reflect episodic evolution of a single orogenic system but a complete change in orientation of stress field, thermal regime, degree of reworking and recycling of European crust, reflecting a major switch in plate configurations at the Early–Late Carboniferous boundary.

Ferry and Brandon's Cost Planning of Buildings - Richard Kirkham 2013-02-05

Ferry and Brandon's Cost

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Planning of Buildings provides acomprehensive introduction to the practice and procedures of costplanning in the procurement of buildings. The eighth edition of this leading textbook has been thoroughlyupdated to reflect the significant changes that have occurred inthe UK construction industry since the new millennium. Whilstretaining its core structure of the three-phase cost planningprocess originally developed by Ferry and Brandon, the textprovides a thorough grounding in contemporary issues includingprocurement innovation, whole life-cycle costing and modellingtechniques. Designed to support the core cost planning studies covered bystudents reading for degrees in quantity surveying and constructionmanagement, it provides a platform for understanding thefundamental importance of effective cost planning practice. The principals of elemental cost planning are covered from bothpre- and post-contract perspectives; the role of effectivebriefing and client/stakeholder engagement as best practice is alsoreinforced in this text. In his revisions, Richard Kirkham reflects the many changes in theconstruction industry in the past eight years: procurement is givenprominence early in the

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book; the changing role of the quantitysurveyor and building economist is discussed, as is the crucialrole they assume throughout the project life cycle. He emphasisesthe importance of early and collaborative working in the designteam, as well as the impact of whole life-cycle costing.

Building Cost Planning for the Design Team - Jim Smith 2016-02-26

Cost management of all building projects has become increasingly important as clients in the public and private sector demand the highest quality cost planning services with accurate budgeting and cost control. All members of the design team must integrate their activities to ensure that a high quality project is delivered on time and within budget. This book considers building cost planning and cost control from the client and the design team's perspective, where all decisions whether concerned with design, cost, quality, time, value or sustainability are taken as being interrelated. The latest Royal Institute of British Architects (RIBA) Plan of Work and the New Rules of Measurement for Early Stage Estimating and Cost Planning issued by the Royal Institution of Chartered Surveyors (RICS) have been incorporated into this new text. The book follows the building

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design cost planning process from the crucial inception stages and then through all the design stages to the completion of the technical design, contract documentation and the tender. It provides a template for good cost planning practice. An essential addition to this third edition is the introduction of integrated design and documentation processes captured in building Information modelling (BIM), on-line cost databases and computerised methods of cost planning. The integrated approaches are explained and provide vital information and knowledge for practitioners involved in building projects. All stakeholders involved in development and design and client teams in public and private sector policy making and implementation need to understand the new approaches to design management processes and how cost planning and design approaches are adapting to using the new technology in practice. The interactive style, using in-text and review questions makes this ideal for students and practitioners alike in property, architecture, construction economics, construction management, real estate, engineering, facilities management and project management.

Willis's Elements of Quantity

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Surveying - Sandra Lee 2020-09-08

Willis's Elements of Quantity Surveying has become a standard text in the teaching of building measurement – a core part of the degree curriculum for quantity surveyors. The book will be fully updated to follow the guidance given by RICS NRM 1 & 2. As in previous editions the focus remains a logical approach the detailed measurement of building elements and copious use of examples to guide the student. The text has been fully revised in line with the NRM guidance and includes many new and revised examples illustrating the use of NRM. The hallmarks of previous editions – clarity and practicality – are maintained, while ensuring the book is fully up to date, providing the student of quantity surveying with a first class introduction to the measurement of building elements.

Sulfide Smelting '98 - Jussi A. Asteljoki 1998

This proceedings volume focuses on all aspects of the production of primary metals from sulfide concentrates, with particular emphasis on smelting and converting operations and gas handling processes and equipment. Papers were presented during the 1998 TMS Annual Meeting & Exhibition.

Fundamentals of Construction

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Estimating - David Pratt 2018-01-01

This comprehensive resource offers thorough instruction on the principles of construction estimating and helps readers develop the skills they need to become professional estimators. FUNDAMENTALS OF CONSTRUCTION ESTIMATING, Fourth Edition, presents estimating procedures in a straightforward and engaging way, clearly explaining key processes of estimating and costing construction work such as quantity takeoff; pricing of contractor work, sub-trade work, and site overhead; and compiling bid documents. In addition, the text includes drawings of two major projects--one residential and one commercial--to guide readers through a complete estimating process that can be followed by various trades on many different types of construction projects. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The Software Encyclopedia - 1986

Integrated Air Quality Management - Nguyen Thi Kim Oanh 2012-07-05

The steady growth in the number of vehicles on the road,

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heavy reliance on coal, use of dirty fuels for residential combustion, and extensive open burning are some of the major factors leading to the progressive deterioration of air quality in developing countries in Asia. And despite efforts to establish and implement air quality measurement systems, the development of infrastructure, environmental technology, and management practices continues to lag behind the rate of emission increase. Based on ten years of coordinated research, Integrated Air Quality Management: Asian Case Studies discusses technical and policy tools for the integrated air quality management of developing countries in Asia. The book begins with an overview of major issues of air quality management practices in developing Asia and potential approaches to reduce pollution, including opportunities for integration of air quality improvement and climate migration strategies. It covers the methodology and results of fine particulate matter monitoring using traditional filter-based and satellite monitoring techniques. It examines the applications of a 3D dispersion modeling tool for urban and regional air quality management focusing on surface ozone, fine particulate

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matter, and acid deposition. The final chapters discuss innovative control technologies for gaseous air pollutants and illustrate the integrated air quality management in developing Asia through case studies for target source categories including agricultural residue field burning, vehicle emissions, brick kilns, and industrial VOC emission. Illustrated with case studies, this book presents an integrated air quality management methodology that employs technical and policy tools to achieve air quality goals. It includes technical information and policy recommendations based on the outcomes of several multi-year air quality research programs coordinated by the Asian Institute of Technology. The text combines fundamental information and advanced knowledge useful to large audiences dealing with subjects of integrated air quality management.

Clean Coal Technology and Sustainable Development - Guangxi Yue 2016-07-30

This book gathers the proceedings of the 8th International Symposium on Coal Combustion. The contributions reflect the latest research on coal quality and combustion, techniques for pulverized coal combustion and fluidized bed combustion,

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special issues regarding CO2 capture (CCS), industrial applications, etc. – aspects that are of great importance in promoting academic communications between related areas and the technical development of coal-related fields. The International Symposium on Coal Combustion (ISCC), sponsored and organized by Tsinghua University since 1987, has established itself as an important platform allowing scientists and engineers to exchange information and ideas on the science and technology of coal combustion and related issues, and to forge new partnerships in the growing Chinese market. Researchers in the fields of clean coal combustion, carbon dioxide capture and storage, coal chemical engineering, energy engineering, etc. will greatly benefit from this book. Guangxi Yue, professor of the Department of Thermal Engineering in Tsinghua University, Beijing, China, and a member of Chinese Academy of Engineering(CAE). Shuiqing Li, professor of the Department of Thermal Engineering in Tsinghua University, Beijing, China.

Fundamentals of Analytical Chemistry - Douglas A. Skoog 2021-07-19

Discover the principles and

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practices behind analytic chemistry as you study its applications in medicine, industry and the sciences with Skoog/West/Holler/Crouch's FUNDAMENTALS OF ANALYTICAL CHEMISTRY, 10th Edition. This award-winning author team presents the latest developments in analytic chemistry today using a reader-friendly yet systematic and thorough approach. Each chapter begins with a compelling story and stunning visuals. Dynamic photos from renowned chemistry photographer Charlie Winters capture attention while reinforcing key principles. New features highlight chemistry-related careers. You also learn how to use Excel 2019 as a problem-solving tool in analytical chemistry with new exercises, updates and examples. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Risk Management for Engineering Projects - Nolberto Munier 2014-04-29

Covers the entire process of risk management by providing methodologies for determining the sources of engineering project risk, and once threats have been identified, managing them through: identification and assessment (probability, relative

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importance, variables, risk breakdown structure, etc.); implementation of measures for their prevention, reduction or mitigation; evaluation of impacts and quantification of risks and establishment of control measures. It also considers sensitivity analysis to determine the influence of uncertain parameters values on different project results, such as completion time, total costs, etc. Case studies and examples across a wide spectrum of engineering projects discuss such diverse factors as: safety; environmental impacts; societal reactions; time and cost overruns; quality control; legal issues; financial considerations; and political risk, making this suitable for undergraduates and graduates in grasping the fundamentals of risk management.

Data Sources - 2000

Proceedings of the First International Workshop on Software and Performance - 1998

Navigation System Data ENtry: Estimation of Task times - Paul Green 1999

Plasma Source Mass Spectrometry - J Grenville Holland 2007-10-31

This book provides a snapshot of the current state-of-the-art of

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the understanding of the fundamentals of ICPMS, instrumental development, methods development, spectral interpretation and applications. It covers a diverse range of topics including: bioanalytical applications (immunoassay, state of phosphorylation, metallo-drugs); environmental applications (drinking water, groundwater, seawater, speciation); reaction cells and collision cells (theory and applications); archaeology; laser ablation; isotope ratio analysis; and the performance, characterization and applications of multicollector instruments. Written by international contributors who emphasize their current perceptions and understanding of the subject, Plasma Source Mass Spectrometry: Applications and Emerging Technologies offers a current perspective on elemental analysis by plasma source mass spectrometry that is not to be found elsewhere. Researchers and professionals in many areas will welcome this book, particularly those in the fields of bioanalytical, environmental and geological chemistry.

Metasomatism in Oceanic and Continental Lithospheric Mantle - Massimo Coltorti 2008

Twenty years have passed since Menzies & Hawkesworth

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extended the concept of metasomatism to mantle processes. The aim of this book is to gather together progress made on this topic since then. Most of the 14 papers reported in the volume rely on in situ major and trace element analyses of minerals and glasses in mantle xenoliths, and deal with different kinds of metasomatic agents at variable fluid/rock ratios in tectonic settings as different as intra-plate, mid-ocean ridge (ophiolites) and supra-subduction.

New Code of Estimating Practice - The Chartered Institute of Building 2018-05-29 The essential, authoritative guide to providing accurate, systematic, and reliable estimating for construction projects—newly revised Pricing and bidding for construction work is at the heart of every construction business, and in the minds of construction consultants' poor bids lead to poor performance and nobody wins. New Code of Estimating Practice examines the processes of estimating and pricing, providing best practice guidelines for those involved in procuring and pricing construction works, both in the public and private sectors. It embodies principles that are applicable to any project regardless of size or complexity.

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This authoritative guide has been completely rewritten to include much more contextual and educational material as well as the code of practice. It covers changes in estimating practice; the bidding process; the fundamentals in formulating a bid; the pre-qualification process; procurement options; contractual arrangements and legal issues; preliminaries; temporary works; cost estimating techniques; risk management; logistics; resource and production planning; computer-aided estimating; information and time planning; resource planning and pricing; preparation of an estimator's report; bid assembly and adjudication; pre-production planning and processes; and site production. Established standard for the construction industry, providing the only code of practice on construction estimating Prepared under the auspices of the Chartered Institute of Building and endorsed by a range of other professional bodies Completely rewritten since the 7th edition, to include much more contextual and educational material, as well as the core code of practice New Code of Estimating Practice is an important book for construction contractors, specialist contractors, quantity surveyors/cost consultants, and

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for students of construction and quantity surveying.

Estimating and Tendering for Construction Work - Martin Brook 2016-12-08

Estimators need to understand the consequences of entering into a contract, often defined by complex conditions and documents, as well as to appreciate the technical requirements of the project. Estimating and Tendering for Construction Work, 5th edition, explains the job of the estimator through every stage, from early cost studies to the creation of budgets for successful tenders. This new edition reflects recent developments in the field and covers: new tendering and procurement methods the move from basic estimating to cost-planning and the greater emphasis placed on partnering and collaborative working the New Rules of Measurement (NRM1 and 2), and examines ways in which practicing estimators are implementing the guidance emerging technologies such as BIM (Building Information Modelling) and estimating systems which can interact with 3D design models With the majority of projects procured using design-and-build contracts, this edition explains the contractor's role in setting costs, and design statements, to inform and control the development of a project's

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design. Clearly-written and illustrated with examples, notes and technical documentation, this book is ideal for students on construction-related courses at HNC/HND and Degree levels. It is also an important source for associated professions and estimators at the outset of their careers.

Project and Cost Engineers' Handbook - Kenneth K. Humphreys 2004-11-30

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

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