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Upgrades Anthony J. Buonicore,2024-07-02 Code compliant building materials and equipment will typically have a lower initial cost however the lifetime energy savings of the high efficiency equipment will often justify the upfront cost premium and result in a more cost effective solution Energy Savings Calculations for Commercial Building Energy Efficiency Upgrades assists energy professionals contractors building owners and managers in developing energy savings estimates that can facilitate a quick assessment of the potential energy savings that might be realized when replacing existing building components with the highest efficiency equipment It also provides algorithms to estimate greenhouse gas emission reductions that may be achieved by building energy efficiency upgrades and the impact these upgrades can have on building electrification decarbonization projects This book Focuses on the development of energy savings estimates based upon a whole building s energy consumption and the energy consumption associated with building end uses such as space heating space cooling ventilation lighting and so forth Includes over 70 illustrative examples using algorithms to demonstrate how energy savings and greenhouse gas emission reductions may be estimated utilizing different strategies and equipment

How to Estimate with RSMeans Data RSMeans,Saleh A. Mubarak,2020-03-31 A practical hands on guide to real world construction estimating How to Estimate with RSMeans Data is the only instructional book on construction cost estimating that uses the most popular source of construction cost data RS Means This updated fifth edition includes new coverage on the role of Building Information Modeling BIM in the estimating process and over 300 sample problems and exercises that show you how to apply cost data to your building project based on the RS Means 2015 Building Construction Cost Data The companion website provides access to RS Means CostWorks data allowing you to use real world numbers in your practice estimates and the included Instructor s Manual provides step by step solutions to problems in the book Focused on the practical aspects of estimating this book emphasizes the application of estimating techniques which are transferable to any estimating software through problem solving and the ground up creation of complete construction project estimates Estimating skills are fundamental to the construction industry and are applied by all parties at all levels throughout the industry This book is a hands on guide to the techniques and tools used to create a thorough estimate with plenty of opportunities for practice Apply cost data to all aspects of the building project Practice your skills on over 300 sample problems Construct a complete estimate using RSMeans Besides being an essential construction skill learning estimating helps you become familiar with reading and understanding construction blueprints and how construction assemblies are built

Mastery of these vital skills is important to your future career and How to Estimate with RSMeans Data is your ideal guide to a solid foundation

Planning and Design of Engineering Systems Graeme Dandy, David Walker, Trevor Daniell, Robert Warner, Bernadette Foley, 2017-12-06 This newly updated book offers a comprehensive introduction to the scope and nature of engineering work taking a rigorous but common sense approach to the solution of engineering problems The text follows the planning modelling and design phases of engineering projects through to implementation or construction explaining the conceptual framework for undertaking projects and then providing a range of techniques and tools for solutions It focuses on engineering design and problem solving but also involves economic environmental social and ethical considerations This third edition expands significantly on the economic evaluation of projects and also includes a new section on intractable problems and systems involving a discussion of wicked problems and soft systems methodology as well as the approaches to software development Further developments include an array of additional interest boxes worked examples problems and up to date references Case studies and real world examples are used to illustrate the role of the engineer and especially the methods employed in engineering practice The examples are drawn particularly from the fields of civil and environmental engineering but the approaches and techniques are more widely applicable to other branches of engineering The book is aimed at first year engineering students but contains material to suit more advanced undergraduates It also functions as a professional handbook covering some of the fundamentals of engineering planning and design in detail

Sustainable Wastewater Treatment Systems José Alberto Herrera-Melián, 2020-12-28 Water is one of the main concerns of modern societies Climate change will significantly complicate access to quality water for millions of people worldwide and the threat of contamination of aquatic resources by poor wastewater management is real and growing fast Therefore there is an urgent need to develop efficient and sustainable wastewater treatment methods Although there are numerous water treatment methods not all of them are equally sustainable be it environmentally economically or ethically For this book some of the latest advances in sustainable wastewater treatments were collected and 13 articles selected The selected articles deal with aspects such as the removal of nanoparticles the applicability of constructed wetlands the recovery removal of wastewater the use of low cost bio sorbents the optimization of activated sludge the application of advanced oxidation technologies and the modeling of reverse osmosis systems This book will give the reader an idea of the latest trends in the sector of sustainable wastewater treatment

Construction Management Daniel W. Halpin, Bolivar A. Senior, Gunnar Lucko, 2017-08-07 It is often said that the construction professional has to be a jack of all trades and master of all This text covers a wide range of subjects reflecting the breadth of knowledge needed to understand the dynamics of this large and complex industry This edition includes updated chapters on planning and scheduling a new chapter addressing linear scheduling methods material regarding the historical background of construction as a profession and includes an Instructor Resource of solutions to the end of chapter review exercises This text has become a standard course text at many universities

The first four editions have enjoyed wide success as an introductory treatment of the subjects which are critical to success in the construction industry This fifth edition preserves the features that have been most appreciated by its users throughout the years and adds suggestions provided by instructors and students through formal surveys and informal feedback to the authors

Means Building Construction Cost Data, 1995 R. S. Means Company, Incorporated, 1994 The acknowledged bible of the industry this reference tool offers unchallenged unit price reliability in an easy to use arrangement Whether used for complete finished estimates or for periodic checks it supplies more cost facts better and faster than any comparable source over 20 000 unit prices for 1995 Unit cost data is organized to conform to the Construction Specifications Institute CSI MasterFormat

How to Estimate with RSMeans Data Saleh A. Mubarak, RSMeans, 2012-04-04 Using North America's most recognized construction cost data from RSMeans this step by step guide develops problem solving skills through over 300 sample problems and exercises All of the major construction items including site work concrete and masonry wood and metal framing doors and windows and more are covered Access to a password protected web site is included which contains the instruction version of RSMeans Cos Works the electronic version of RS Means Building Construction Cost Data and sample building plans and spreadsheets enabling you to practice creating a complete construction estimate

Sustainable Cities Amjad Almusaed, Asaad Almssad, 2019-02-27 This book has been written to represent the efficient applications of sustainability in urban areas The book intends to illustrate various techniques of action on sustainability on city conception functions and conformation This book is divided into four parts and nine chapters Section I is entitled Introduction to Sustainable Cities Concept and contains one chapter Introductory chapter Overview of Sustainable Cities Theory and Practices which discusses sustainability in cities in conception and practice Section II is entitled Energy and Environmental Analysis of Sustainable Cities Models This includes four chapters It expresses the effect of the environment and energy embodiment on city configuration and function Section III is entitled The Role of Transport in a Sustainable City This part includes two chapters Section IV is entitled The influence of Social and Economic Factors in Urban Space Conception It includes two chapters

Guide to Good Practice in the Management of Time in Major Projects CIOB (The Chartered Institute of Building), 2018-04-30 A practical treatise on the processes and standards required for the effective time management of major construction projects This book uses logical step by step procedures and examples from inception and risk appraisal through design and construction to testing and commissioning to show how an effective and dynamic time model can be used to manage the risk of delay in the completion of construction projects Integrating with the CIOB major projects contract the new edition places increased emphasis on the dynamic time model as the way to manage time and cost in major projects as opposed to the use of a static target baseline program It includes a new chapter distinguishing the principal features of the dynamic time model and its development throughout the life of a project from inception to completion

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Construction Equipment Management John E. Schaufelberger, Giovanni C. Migliaccio, 2019-03-27 This revised and updated edition of Construction Equipment Management fills a gap on this subject by integrating both conceptual and hands on quantitative knowledge on construction equipment into a process that facilitates student learning The first six chapters summarize interdisciplinary concepts that are necessary to ground students learning on construction equipment management including both engineering and economics Each of the next 16 chapters covers a different type of construction equipment and associated methods of use The final chapter introduces the more advanced concept of operation analysis This allows the book to be used on numerous courses at different levels to prepare graduates to apply skills on construction equipment when planning for a new project estimating its costs and monitoring field operations Organized around the major categories of construction equipment including both commercial and heavy civil examples case studies and exercises this textbook will help students develop independence in applying concepts to hands on scenarios A companion website provides an instructor manual solutions additional examples lecture slides figures and diagrams

Federal Register , 2013-04 **Large-scale dam removal and ecosystem restoration** Rebecca McCaffery, Laura Soissons, Jeffrey J. Duda, Jean-Marc Roussel, 2024-09-20 Rivers are vital ecosystems that support aquatic and terrestrial biodiversity and several ecosystem services including food water culture and recreation After centuries of building dams on rivers across the world dam removal projects are now on the rise due to obsolescence reservoir sedimentation insufficient return on investment or river restoration and conservation priorities Most dam removal projects have focused on smaller structures 10 m in structural height but larger structures have also started to be removed in increasing numbers as practitioners river managers conservationists and the public have gained more experience with the practice Recent estimates suggest that only a small fraction of dam removals have been scientifically studied and include mostly small dams and short time scales Documenting the long term ecological outcomes of large dam removal i e 10 m tall represents a new frontier in dam removal research projects are more recent and provide an opportunity to understand the complex ecological changes that occur with these transformative restoration projects Here we aim to collate a diverse array of papers on long term dam

removal research projects involving larger dams 10 m to synthesize the issues outcomes tools and experimental designs used to study large dam removal projects from physical biological and ecological perspectives With this collection we aim to showcase diverse global projects on ecosystem responses to large dam removal collect perspectives from different disciplines fields and geographies and synthesize the current state of knowledge in this area We expect that this Research Topic will be informative to ongoing long term ecological restoration and monitoring projects related to dam removal as well as to upcoming large dam removal projects We welcome contributions from all disciplines addressing the physical ecological and ecosystem responses to large scale dam removal Contributions could include original research in a specific discipline or area case studies or synthesis papers that address one or more of these topics in a transdisciplinary approach Contributors could address any of the following major topics as related to outcomes of large dam removal alone or in combination Freshwater estuarine and marine aquatic biota River and reservoir geomorphology Terrestrial and riparian vegetation Wildlife Sedimentation and Modelling We would like contributors to highlight key results in their area of study cross disciplinary insights and lessons learned that could inform ongoing monitoring and research efforts in current projects as well as upcoming large dam removals

Doctoral Research in Construction Management Zhen Chen,Heng Li,2023-02-17

Building Construction Cost Data Stephen C. Plotner,2017-10-31 This data set is aimed primarily at estimating commercial and industrial projects or large multi family housing projects costing 3 500 000 and up Designed for new construction projects All materials wages and equipment costs have been reviewed and updated for 2018 Provided by publisher

Handbook of Green Building Design and Construction Sam Kubba,2016-10-15 Handbook of Green Building Design and Construction LEED BREEAM and Green Globes Second Edition directly addresses the needs of building professionals 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 that draws on over 35 years of personal experience from across the world

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Reliability of Geotechnical Structures in ISO2394 K.K. Phoon,J.V. Retief,2016-11-25 The latest 4th edition of the international standard on the principles of reliability for load bearing structures ISO2394 2015 includes a new Annex D dedicated to the reliability of geotechnical structures The emphasis in Annex D is to identify and characterize critical elements of the geotechnical reliability based design process This book contains a wealth of data and information to assist geotechnical engineers with the implementation of semi probabilistic or full probabilistic design approaches within the context of established geotechnical knowledge principles and experience The introduction to the book presents an overview

on how reliability can play a complementary role within prevailing norms in geotechnical practice to address situations where some measured data and or past experience exist for limited site specific data to be supplemented by both objective regional data and subjective judgment derived from comparable sites elsewhere The principles of reliability as presented in ISO2394 2015 provides the common basis for harmonization of structural and geotechnical design The balance of the chapters describes the uncertainty representation of geotechnical design parameters the statistical characterization of multivariate geotechnical data and model factors semi probabilistic and direct probability based design methods in accordance to the outline of Annex D This book elaborates and reinforces the goal of Annex D to advance geotechnical reliability based design with geotechnical needs at the forefront while complying with the general principles of reliability given by ISO2394 2015 It serves as a supplementary reference to Annex D and it is a must read for designing geotechnical structures in compliance with ISO2394 2015

Facilities Staffing Requirements for the Veterans Health

Administration—**"Resourcing, Workforce Modeling, and Staffing"** National Academies of Sciences, Engineering, and Medicine, Division of Behavioral and Social Sciences and Education, Board on Human-Systems Integration, Division on Engineering and Physical Sciences, Board on Infrastructure and the Constructed Environment, Committee on Facilities Staffing Requirements for Veterans Health Administration, 2019-07-31 In January 2019 the National Academies of Sciences Engineering and Medicine convened the 2 day Workshop on Resourcing Workforce Modeling and Staffing This workshop is one of several data gathering sessions to support the committee's iterative study The overarching goal of the study is to help the Veterans Health Administration VHA assess the overall resource needs of its Facilities Management Program and to develop budget and staffing methodologies Such methodologies can provide better justification for ensuring that local VHA programs are adequately and consistently staffed to accomplish the mission and meet all requirements This publication summarizes the presentations and discussions from the workshop

CONVR 2023 - Proceedings of the 23rd

International Conference on Construction Applications of Virtual Reality Pietro Capone, Vito Getuli, Farzad Pour Rahimian, Nashwan Dawood, Alessandro Bruttini, Tommaso Sorbi, 2023 Within the overarching theme of Managing the Digital Transformation of Construction Industry the 23rd International Conference on Construction Applications of Virtual Reality CONVR 2023 presented 123 high quality contributions on the topics of Virtual and Augmented Reality VR AR Building Information Modeling BIM Simulation and Automation Computer Vision Data Science Artificial Intelligence Linked Data Semantic Web Blockchain Digital Twins Health Safety and Construction site management Green buildings Occupant centric design and operation Internet of Everything The editors trust that this publication can stimulate and inspire academics scholars and industry experts in the field driving innovation growth and global collaboration among researchers and stakeholders

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web 1 video 7 photos genndy tartakovsky was born and raised in moscow ussr he and his family moved to chicago il when he was 7 years old after his father defected to the us his interest in comic books and animation led him

