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ESTIMATING

in BUILDING CONSTRUCTION



 Pearson

NINTH EDITION

[PDF] Estimating In Building Construction (What's New In Trades & Technology)

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Estimating in Building Construction-Frank R. Dagostino 2008 Everything needed for a course in Estimating is provided in this proven text, which combines coverage of principles with step-by-step procedures. Ideal for construction, architecture, and engineering students, it reflects the popular approach of tracing a complete project's progress. The use of computers as a key estimating tool is incorporated throughout.

Estimating in Building Construction-Steven J. Peterson MBA, PE 2014-02-25 This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. The only complete, up-to-date guide to estimating modern building construction projects -- now updated, expanded, and incorporating many additional workbook problems. Now updated and expanded, Estimating in Building Construction, Eighth Edition, brings together everything needed for a complete, modern course in estimating. Building on well-proven previous editions, it combines sound coverage of principles with step-by-step procedures to help students learn concepts more easily. Ideal for construction, architecture, and engineering students, it reflects the popular approach of tracking a complete project's progress. There are examples of estimating portions of the building that many General Contractors perform, and thorough coverage of the use of specialty subcontractors. This edition adds a new discussion of Building Information Modeling (BIM) and more detailed discussions of estimating equipment cost, electrical, plumbing (including fire sprinklers), and HVAC. For convenience and cost savings, workbook problems that accompanied the previous edition have been incorporated into the book. Teaching and Learning Experience This book will help construction, architecture, and engineering students quickly master today's best practices for estimating building construction projects. It provides: Extensive examples and problems designed to link theory to practice: Helps students deepen the judgment skills they will need to succeed in real-world estimating Expanded and updated coverage of today's key challenges and techniques--Helps students master the latest industry practices and standards, and utilize key innovations such as Building Information Modeling Includes extensive reference resources for professional estimating: Gives students resources they can rely on throughout their careers, from sample specifications to spreadsheets

Estimating in Building Construction-Frank R. Dagostino 1989 An update of the proven estimating text by Frank Dagostino, "Estimating in Building Construction, 7/e," provides everything you need for a course in Estimating. It combines sound coverage of principles with step-by-step procedures to help students learn concepts more easily. Ideal for construction, architecture, and engineering students, it reflects the popular approach of tracing a complete project's progress. Added in this edition is a discussion of computers in estimating, different types of estimates (e.g., square foot, project comparison, and assembly estimating), how to determine labor productivity, and how to determine labor burden.

Building Construction Estimating-Stephen D. Schuette 1994-01 This undergraduate-level text gives students information about the construction estimating process from the general contractors' point of view. The software included contains an estimating program from Tiberline, Inc. and prepared spreadsheet templates, which are tied to the end-of-chapter exercises throughout the text. SI units are used and each chapter contains a checklist to enhance learning.

Construction Estimating Using Excel-Steven Peterson 2017-01-11 For beginning to intermediate courses in construction estimating in two- and four-year construction management programs. A step-by-step, hands-on introduction to commercial and residential estimating Construction Estimating with Excel, 3/e, introduces readers to the fundamental principles of estimating using drawing sets, real-world exercises, and examples. The book moves step-by-step through the estimating process, discussing the art of estimating, the quantity takeoff, how to put costs to the estimate, and how to finalize the bid. As students progress through the text they are shown how Microsoft Excel can be used to improve the estimating process. Because it introduces spreadsheets as a way of increasing estimating productivity and accuracy, the book can help both beginning and experienced estimators improve their skills. The Third Edition gives students a broader understanding of construction estimating with a new chapter discussing the role that estimating plays in different project delivery methods and in the design process and how to use data from RSMean. To bring the book up to date, the material and equipment costs and labor rates have been updated to reflect current costs, and the discussion of Excel (including the figures) is based on Excel 2016. Additionally, content throughout the book has been updated to align to ACCE and ABET student learning outcomes. Student resources are available on the companion website www.pearsonhighered.com/careersresources/ .

Estimating for Building & Civil Engineering Work-John Williams 2013-02-01 It deals in a practical and reasonable way with many of the estimating problems which can arise where building and civil engineering works are carried out and to include comprehensive estimating data within the guidelines of good practice. The early part of the book has been completely rewritten to contain chapters useful to students and practitioners alike for the development of the estimating process resulting in the presentation of a tender for construction works. The second and major part of the book contains estimating data fully updated for the major elements in building and civil engineering work, including a new chapter on piling, and a wealth of constants for practical use in estimating. The estimating examples are based on the current edition of the Standard Method of Measurement for Building Works (SMM7). The comprehensive information on basic principles of estimating found in 'Spence Geddes' are still as valid today as the first edition. In this edition the prevailing rates of labour and costs of materials are taken whenever possible as a round figure. Readers will appreciate in the construction industry that prices are continually changing, rise and fall, and that worked examples should therefore be used as a guide to method of calculation substituting in any specific case the current rates applicable to it. In the case of plant output dramatic increases have been experienced in productivity over recent years and again estimators with their own records should substitute values appropriate to their work.

Estimating in Building Construction-Frank R. Dagostino 2010-04-23 This package contains the following components: -0131199528: Estimating in Building Construction -0135097487: Student Workbook for Estimating in Building Construction

Estimating Building Costs for the Residential and Light Commercial Construction Professional-Wayne J. Del Pico 2012-04-30 How to succeed in the construction business—step-by-stepguidelines for estimating To be competitive, contractors and homebuilders need to know howto generate complete, accurate estimates for labor and materialcosts. This book guides readers through the entire estimatingprocess, explaining in detail how to put together a reliableestimate that can be used not only for budgeting, but also fordeveloping a schedule, managing a project, dealing withcontingencies, and ultimately making a profit. Completely revised and updated to reflect the new CSIMasterFormat 2010TM system, the Second Edition of this practicalguide describes estimating techniques for each building system andhow to apply them according to the latest industry standards. Costconsiderations and quantity takeoff and pricing are included forvirtually every type of work found in residential and lightcommercial projects, from demolition, concrete, and masonry towindows and doors, siding, roofing, mechanical and electricalsystems, finish work, and site construction. Complete with many new graphics and references to professionalconstruction cost databases, the new edition provides experiencedcontractors and novices alike with essential information on: How to correctly interpret plans and specifications, reflectingupdates to contract documents since the first edition Computer estimating techniques and new estimating software forperforming quantity takeoff The best methods for conceptual

estimating as well as theextremely useful topic of parametric estimating How to allocate the right amounts for profit and contingencies,and other hard-to-find professional guidance How a unit price estimate is built along with labor issues andbudgeting for subcontractor work

Student Workbook for Estimating in Building Construction-Steven J. Peterson 2010-01

Construction Estimating and Bidding: Training Manual to Acquire Fundamental Knowledge in Estimating Building Construction Costs-Yvon Chabot 2019-03-05 The purpose of this manual is to enable students to gain fundamental knowledge of estimating the cost of building construction projects. The procedures used for estimating vary form company to company. On the other hand, the construction industry has become, over the years, more competitive which has made construction companies to do their best in order to offer the best possible service at the least price. To overcome this constraint, it is necessary to know precisely the cost of services. And it would be the role of an Estimator. Unfortunately, there are no specific rules, as it accounts, for obtaining a good estimate, even among individuals within a company. Because of contracting method currently employed (like fast track or PPP) construction companies need precision in their estimates; in addition, as estimators are increasingly consulted at conceptual design stage, we will talk about conceptual estimate in chapter one and then focus on detailed estimations and its process in upcoming chapters.We all know that a good estimator needs to have a good knowledge about construction techniques and factors that influence the realization of a project. We also know that an individual who possesses a high level of experience in his/her field but also could be a poor estimator in the absence of reliable method. So, in this manual we will focus more on estimations' method rather than techniques of construction.A detailed estimate (Bid Estimate) can be analyzed in terms of the SIX principal stages of the process:1.Quantity Takeof2.Recap Quantities3.Pricing the Recap4.Pricing Subcontractor's work5.Pricing General Expenses6.Summary and BidTo decode these six steps into an effective and accurate estimation method, the manual is divided into three modules. Each module is divided into chapters. The first module addresses the preparation of an estimate for construction and describes the entire submission process. The second module deals with the methods of measurement of the constructive systems then, in the third module, establish the prices of the elements, the expenses of the general conditions and finally, close the submission.

How to Estimate with RSMean Data-Saleh A. Mubarak 2012-04-04 Using North America's most recognized construction cost data from RSMean, 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 RSMean Cos/Works, the electronic version of RS Mean Building Construction Cost Data, and sample building plans and spreadsheets, enabling you to practice creating a complete construction estimate.

Estimating Building Costs-Calin M. Popescu 2003-04-22 Companies live or die on the basis of estimating their costs. Preparing estimates and bidding for new jobs is a complex and often costly process. There is no substitute for on the job training -- until now. Drawing on the authors' combined experience of more than 70 years, Estimating Building Costs presents state-of-the-art principles, practices, and techniques for assessing these expenditures that can be applied regardless of changes in the costs of materials, equipment, and labor. The book is an efficient and practical tool for developing contracts or controlling project costs. The authors cover the major components of the direct cost: estimating procedures and cost trends related to materials, construction equipment, and skilled and unskilled labor. They describe various types of building estimates encountered during the lifecycle of a project, as well as the role and accuracy of each. The book provides an overview of the industry, cost indexes in use, approaches to preparing a detailed estimate, and an in-depth description of the organization and function of the estimating group. Including CSI Master Format and UniFormat codes, estimating forms, a list of available estimating software packages, a detailed construction site and investigation report, the book provides a cost estimating methodology that readers can tailor to their own organizational needs.

Introduction to Estimating for Construction-Brian Greenhalgh 2013 Students and professionals encountering estimating for the first time need an approachable introduction to its principles and techniques, which is up to date with current practice. Introduction to Estimating for Construction explains both the traditional techniques, and best practice in early contractor involvement situations, within the framework of modern construction procurement. As well as introducing different estimating techniques, it includes: The nature of costs in construction from a cost of resources approach Modern tendering procedures and the stages of development of construction projects How to convert an estimate into a formal tender and then into a contract Simple numerical examples of estimates Estimating and cost analysis during the construction project Summaries and discussion questions in every chapter This is an easy to read introduction to building estimating for undergraduate students, or anyone working in a quantity surveying or construction commercial management role who needs a quick reference.

RSMean Cost Data-RSMean 2012-02-21 RSMean Cost Data, Student Edition provides a thoroughintroduction to cost estimating in a self-contained print andonline package. With clear explanations and a hands-on,example-driven approach, it is the ideal reference for students andnew professionals who need to learn how to perform cost estimatingfor building construction. Features include: Commercial and residential construction cost data in print andonline formats Complete how-to guidance on the essentials of costestimating A supplemental website with plans, specifications, problem sets,and a full sample estimate With more than 930 Location Factors in the United States andCanada, the data includes up-to-date system prices for more than100 standard assemblies and in-place costs for thousands ofalternates—making it easy to customize budget estimates andcompare system costs. UNIT PRICES (organized in MasterFormat 2010) 1 General Requirements 2 Existing Conditions 3 Concrete 4 Masonry 5 Metals 6 Woods, Plastics & Composites 7 Thermal & Moisture Protection 8 Openings 9 Finishes 10 Specialties 11 Equipment 12 Furnishings 13 Special Construction 14 Conveying Equipment 21 Fire Suppression 22 Plumbing 23 Heating, Ventilating & Air Conditioning 26 Electrical 27 Communications 28 Electronic Safety & Security 31 Earthwork 32 Exterior Improvements 33 Utilities ASSEMBLIES A Substructure B Shell C Interiors D Services E Equipment & Furnishings F Special Construction G Building Site Work REFERENCE INFORMATION Equipment Rental Costs Crews Cost Indexes Reference Tables Square Foot Costs

Estimating and Project Management for Building Contractors-Michael Kitchens 1996-01-01 "A useful overview for both beginners and seasoned professionals, this book provides insight and practical guidelines on the day-to-day processes of construction estimating and project management. Kitchens reviews the varied tasks of the estimator, project manager, and project superintendent, from the decision to bid to completing paperwork and managing project risks. He draws from his years of professional experience, as well as case histories, to examine estimate preparation, procedures to follow on bid day, job site safety, quality assurance, financial considerations, cost control, and much more. Ethics in construction, errors in estimating and project management, and information regarding training key personnel are also addressed."--BOOK JACKET.Title Summary field provided by Blackwell North America, Inc. All Rights Reserved

Introduction to Estimating, Plan Reading and Construction Techniques-Gary Anglin 2019-11-19 To understand Construction Estimating one must also understand plan reading and construction techniques. This book is designed to teach the construction student these three core skills in equal measure. Using hundreds of plans, sketches, and photos, the book builds case studies of the major construction divisions including concrete, masonry, carpentry, and more. Over forty cases are divided into sections following a specially designed format: Plans: Scale drawings of floor plans, sections, or elevations. Plan Interpretation: The drawings are explained with comments. Scope of the Work: A written description of the boundaries of the work is given for each section. Construction Techniques: The construction processes and their sequence are explained. The Takeoff: A takeoff is shown at the end of each section. This approach helps foster confidence in plan reading, building methods, arithmetic, takeoffs, and estimates. The various products and terms used in the industries of structural steel, doors and hardware, and roofing are defined. The shop drawing process is explained, which is so important in many industries, as well as the role of and difference between manufacturers, fabricators, and suppliers/distributors. The book ends with a study of "front end" documents, including Division 00 General Conditions, AIA 201, and Division 01 General Requirements, and a chapter on Ethics. This textbook can be used to teach a variety of classes including plan reading, construction techniques, and estimating 1 and 2 (takeoffs and pricing).

Industrial Construction Estimating Manual-Kenneth Storm 2020-05-27 Industrial Construction Estimating Manual focuses on industrial process plants and enables the contractor, subcontractor, and engineer to use methods, models, procedures, formats, and technical data for developing industrial process plant construction estimates. The manual begins with an introduction devoted to labor, data collection, verification of data, coding, productivity measurement, the unit quantity model, and computer-aided cost estimating. It goes on to provide information on construction materials, database systems, work estimating, computer-aided estimating, detailed labor estimates, bid assurance, and detailed applications to construction. Practical examples based on historical data collected from past installations are also included as well as a detailed glossary, Excel and mathematical formulas, metric/standard conversions, area and volume formulas, and boiler man-hour tables. Industrial Construction Estimating Manual aids contractors, subcontractors, and engineers with a balance-detailed estimating method using the unit quantity model and is an excellent resource for those involved in engineering, technology, and construction estimating. Provides a detailed estimating method using the unit-quantity model to prepare construction estimates Delivers information on construction materials, databases, labor estimates, computer-aided estimating, bid assurance, and applications to construction. Utilizes historical data, from a database of previous similar work, calculates material cost and labor by category, and produces both summary and detailed man-hour and cost estimates.

Estimating in Heavy Construction-Dieter Jacob 2016-11-14 This book presents the theoretical background as well as best practice examples of estimating in heavy construction. The examples stem from practitioners in international large-scale construction projects. As distinct from other publications on estimating, this book presents specific numbers and costs are calculated precisely. In this way the book helps to avoid errors in the estimating of construction projects like roads, bridges, tunnels, and foundations.

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 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.

Estimating Construction Costs-Robert Leroy Peurifoy 2001-12-01 Robert Peurifoy was a giant in the field of construction engineering and authored several books during his lifetime. This book last published in 1989 and will capitalize on the well-known name of the author. In this edition, computer calculations of costs and of modeling have been added as well as updated statistics, computer related examples and new problems. Civil, Environmental, and Construction Management Engineering Majors and Professionals will benefit from having this title on their shelf.This edition retains the conceptual strengths of the Peurifoy approach and organization from the previous edition but the new problems and computer-based examples and new up-to-date construction data make it the only choice in academia or industry.

Construction Cost Estimating-Len Holm 2005 The most comprehensive book on the market that covers the fundamental cost estimating principles and processes used in commercial construction today. Using a single case study, the book shows readers how to prepare their estimates and to develop the necessary skills needed to be successful in the construction industry. It covers theory, types of estimates, estimating procedures and contractual aspects as well as providing practical tips on how to estimate. Specifically details the process for developing three separate types of estimates: a budget estimate during design development, a guaranteed-maximum-price estimate for a cost-plus contract, and a bid for a lump-sum contract. The book also discusses analysis of subcontractor quotations as well as estimating job site general conditions and company overhead costs; it even includes discussion of negotiated contracts. A comprehensive reference for construction professionals such as cost estimators and project managers.

Construction Estimating-Karl F. Schmid 2011-09-30 This pocket-sized book is a concise guide to the basics of estimating construction costs for residential and light commercial building projects. It provides a step-by-step guide to estimating the total cost of a construction project. It takes readers through five phases that lead to a successful estimate: initial assessment, work analysis, programming, costing and cost distribution and summarization. The book's primary targets are small contractors; however, the principles set forth in the book are applicable to all contractors. The book could also serve as a textbook for estimating classes in construction management programs at universities and community colleges. The last section of the book provides useful but not readily available information for estimators on diverse topics, e.g., detailed information about Value Engineering, scheduling, subcontractor selection, bid summarization, and so on. An extensive glossary of construction terms is also included. Readers in all construction capacities will find: * A new, fresh look at the often baffling and deceptive job of estimating construction costs for residential and light commercial construction * How to assess plans, review bonds, and evaluate the site and the project schedule before beginning a cost take-off * How to integrate a cost estimate into a general accounting program for cost management and eventual billing * Incredibly helpful appendix with common construction standards and measurements--from standards for concrete forms, to nail sizes to commercial lumber sizes, and much more!

Estimating Home Building Costs-W. P. Jackson 1981 Accurately estimate every phase of residential construction costs. Shows you how to keep track of man-hours and make accurate estimates for framing, foundations, and much more. Provides and explains sample worksheets with instructions.

Means Mechanical Estimating Methods: Takeoff & Pricing for HVAC & Plumbing, Updated 4th Edition-Melville Mossman 2007-08-23 An easy-to-use tool for estimating heating, ventilating, and air conditioning systems, with up-to-date cost data and estimating examples. This all-in-one reference gives you the accepted standards and procedures for takeoff and pricing HVAC systems, as well as piping, plumbing, and fire protection. Includes all of the major mechanical systems in new building construction. The book will show you how to: Evaluate mechanical plans and specs so you can estimate all cost components Measure, quantify, and perform takeoffs for materials, labor, and equipment Identify and correctly apply direct and indirect costs, including overhead and profit Use forms to improve accuracy and efficiency - with electronic forms now available on the book's own website Compare materials and methods and select the most cost-effective way to get the job done

Train new estimators with clear instructions for estimating the mechanical trades Make the best use of RSMean Mechanical Cost Data and RSMean Plumbing Cost Data Organized for easy reference, the book gives you quick access to whatever aspect of mechanical estimating you need. It includes a glossary of mechanical terms and definitions - plus symbols used on mechanical plans, useful formulas, checklists, and conversion tables.

Fundamentals of Construction Estimating-David Pratt 2011 An international edition of this product is available for sale overseas and in international markets.

Electrical Estimating Methods-Wayne J. Del Pico 2014-11-17 Simplify the estimating process with the latest data, materials, and practices Electrical Estimating Methods, Fourth Edition is a comprehensive guide to estimating electrical costs, with data provided by leading construction database RS Means. The book covers the materials and processes encountered by the modern contractor, and provides all the information professionals need to make the most precise estimate. The fourth edition has been updated to reflect the changing materials, techniques, and practices in the field, and provides the most recent Means cost data available. The complexity of electrical systems can make accurate estimation difficult, but this guide contains all the necessary information in one place. An electrical estimate represents the total cost for materials, labor, overhead and profit, but accuracy is virtually impossible without a basic knowledge of the field, and real-world experience in the type of work required. Inaccurate estimates lead to problems with customer satisfaction, which often create payment issues. A thorough, complete, and accurate estimate is in the best interest of all parties involved in the work. Electrical Estimating Methods provides more than just data. Detailed discussions about the work itself help highlight factors that may escape notice, and access to the latest cost data helps tie everything together. Features include: Discussion of current equipment, materials, and processes Means data for both residential and commercial projects Case studies that illustrate best practices Online access to the latest Means data for fast access on the job The book discusses specific situations as well as general practices, and provides comprehensive guidance to the creation of a true, current, estimation of costs. For electrical contractors and estimators, Electrical Estimating Methods contains must-have content that simplifies the estimating process.

Construction Project Management-Alison Dykstra 2011-01-01 Introduces the multiple players and tasks required to bring a construction project from inception to close-out, covering such topics as sustainable construction, bids, contracts, estimates, scheduling, and disputes.

Roofing Construction & Estimating-Daniel Benn Atcheson 1995 Everything you need to know to estimate, build, and repair practically every type of roof covering: asphalt shingles, roll roofing, wood shingles & shakes, clay tile, slate, metal, built-up, and elastomeric. Shows how to measure and estimate most roofs (including estimating shortcuts discovered by the author), how to install leak-proof underlayment and flashing, and how to solve problems with insulation, vapor barriers, and waterproofing. Over 300 large, clear illustrations that help you find the answers to all your roofing questions.

Building Trades Printreading-Thomas E. Proctor 2000-03

Green Building-RSMean 2010-11-11 A unique cost reference, updated and expanded, for architects, engineers, contractors, building owners, and managers Green building is no longer a trend. Since the publication of the widely read first edition of this book, green building has become a major advancement in design and construction. Building codes and standards have adopted much stricter energy efficiencies. Businesses, institutions, and communities have discovered huge savings, along with health and marketing advantages, in sustainable building. Private facilities, as well as public buildings for Federal, state, and local governments are increasingly required to design and build sustainably in both new construction and renovation. This Third Edition has been updated with the latest in green building tech-nologies, design concepts, standards, and costs. The chapters, case studies, and resources give you practical guidance on green building, including the latest on: Green building approaches, materials, rating systems, standards, and guidelines Energy efficiencies, implementing energy modeling tools Designing and specifying, as well as commissioning, green building projects Often-specified products and materials, as well as a sample spec Goals and techniques for health, comfort, and productivity Evaluating the cost versus value of green products over their life cycle Low-cost green strategies, and special economic incentives and funding Building deconstruction and cost considerations With a new chapter on greening of commercial real estate, this reference is a one-stop resource for the latest in green building approaches and implementation. The contributors, all prominent leaders in green building, include: Mark Kalin, FAIA, FCSI, author of the original GreenSpec Andy Walker, Ph.D., PE, senior engineer with NREL Joseph Macaluso, AACE, certified cost consultant

Estimating for Residential Construction-David Pratt 2011-04-18 ESTIMATING FOR RESIDENTIAL CONSTRUCTION, 2E provides a very visual, reader-friendly introduction to processes as it details the steps involved in accurately preparing a cost estimate. In his signature clear, straightforward writing style, proven author David Pratt explains how to price excavation and site work, concrete, carpentry, masonry, plumbing, heating, and electrical work, as well as the general expenses and sub-trade work. He also covers the impact of green building practices. The book offers specifics on how to prepare a bill of materials from a takeoff, summarize and prepare a bid for a custom home, assess markup on an estimate, and review a bid before it is submitted to the client. It covers the basic math of residential work early on, devotes an entire chapter to remodeling, and provides tips of the trade from professionals in every chapter. In addition, the Second Edition is linked to a Student Companion Website, where instructors and students can access spreadsheets to assist in estimating tasks and problems. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Estimating Losses from Future Earthquakes- 1989-01-15

RSMean Estimating Handbook-RSMean 2009-08-28 This comprehensive reference covers the full spectrum of technical data required to estimate costs for major construction projects. Widely used in the industry for tasks ranging from routine estimates to special cost analysis projects, the book has been completely updated and reorganized with new and expanded technical information. RSMean Estimating Handbook will help construction professionals: Evaluate architectural plans and specifications Prepare accurate quantity takeoffs Compare design alternatives and costs Perform value engineering Double-check estimates and quotes Estimate change orders FEATURES: This new edition includes expanded coverage of: Construction specialties—green building, metal decking, plastic pipe, demolition items, and more Preliminary or square foot estimating tools Updated city cost indexes to adjust costs—by trade—for 30 major cities Historic indexes to factor costs for economic effects over time Complete reorganization to the newest CSI MasterFormat classification system

Print Reading for Construction-Walter Charles Brown 2012-03-01 Print Reading for Construction is designed to assist students in reading and understanding residential and commercial prints. The 2013 edition of this text has been extensively revised and features five new print reading projects, including two new unit-based projects with end-of-unit activities and three new advanced projects at the end of the text. This practical text is suitable for vocational students, apprentices, and building trades workers who want to increase their knowledge of print reading and construction drawings. The combination text and workbook presents a thorough discussion of print reading techniques, starting with the basics of print reading and progressing to advanced topics. * Includes more than 125, 17" x 22" foldout prints, which provide learners with realistic on-the-job experiences. * Provides four comprehensive print reading projects at the end of the text. * Full color is used throughout the text to enhance student comprehension of the subject matter. The Instructor's Resource CD contains electronic versions of the foldout prints that accompany the Print Reading for Construction textbook. The electronic prints are provided in PDF format. These prints can be projected by the instructor during a lecture or used in place of the paper prints by the student when completing the print reading activities.

Unit Price Estimating Methods-Phillip R. Waier 2007-05-22 This comprehensive reference explains everything you need to know about taking off and pricing detailed, unit price construction estimates. The book takes you through every step of the estimating process — from receipt of the plans, to detailed quantity takeoffs and pricing, to bidding strategies, and finally, cost control. Also includes electronic estimating forms you can access to download and customize from the book's own website. Organized for quick reference, the book features: Estimating guidance for every segment of construction by CSI MasterFormat division — the most recognized industry standard for organizing construction projects and costs Checklists and forms to streamline the estimating process What to watch out for — common errors and omissions How to calculate and apply direct and indirect costs, including overhead and profit A complete, fully updated sample cost estimate An appendix with labor hours for common construction operations

Building Design and Construction Handbook-Frederick S. Merritt 1982 Provides updated, comprehensive, and practical information and guidelines on aspects of building design and construction, including materials, methods, structural types, components, and costs, and management techniques.

Construction Accounting and Financial Management-Steven J. Peterson 2011-12-27 CONSTRUCTION ACCOUNTING & FINANCIAL MANAGEMENT, 3/e helps construction professionals and construction management students master the principles of financial management, and adapt and apply them to the challenge of profitably managing construction companies. It integrates content that has traditionally been taught through separate accounting, finance, and engineering economics texts. Students learn how to account for a construction company's financial resources; how to manage its costs, profits, and cash flows; how to evaluate different sources of funding a company's cash needs; and how to quantitatively analyze financial decisions. Readers gain hands-on experience through 220 example problems and over 390 practice problems, many of them based on situations actually encountered by the author. This edition adds more than 100 new discussion questions, and presents financial equations and accounting transactions more visually to support more intuitive learning.

Cost Management of Construction Projects-Donald Towey 2013-06-12 The cost manager/quantity surveyor plays a pivotal role in the financial and contract management of construction projects, although the exact nature of the service they provide depends on the project employer's terms of engagement. This can mean acting as consultant in a range of roles including cost and advisory services for budget setting to initiate a project, cost management through the design and construction phases, contract administration and acting as the client side project manager to oversee the entire building process. Cost Management of Construction Projects focusses on the cost manager/quantity surveyor engaged by the project client, and discusses key elements that help drive project success including measurement (based on the New Rules of Measurement published by RICS), procurement, cost planning, contract administration and project cost management. With examples, it provides a thorough guide to the role in the workplace and in the field, directly addressing the day to day situations faced by the cost manager/quantity surveyor. Donald Towey MRICS has extensive experience of the construction industry. His experience began as an estimator with a glass/glazing contractor in Manchester. Following a number of positions with UK contractors he relocated to Australia and has worked with a number of developers and main contractors, as well as doing freelance work. He is currently working in contracts management in Sydney.

2020 National Construction Estimator-Richard Pray 2019-10 Current building costs for residential, commercial, and industrial construction. Estimated prices for every common building material. Provides manhours, recommended crew, and gives the labor cost for installation. Complete estimates for just about every item used in residential, commercial, or industrial construction." --

Fundamentals of Building Construction-Edward Allen 1998-12-01