

House Construction Cost Analysis And Estimating

For contractors, therefore, the knowledge required to construct an accurate price estimate is critical. The result is a fundamental guide to this critical aspect of the construction industry. Readers of the third edition of Estimating Building Costs for the Residential and Light Commercial Construction Professional will also find: Fully updated text to reflect the new CSI MASTERFORMAT™ 2020 Analysis of cost considerations, quantity takeoff, pricing, and more Step-by-step guidance for developing a comprehensive cost estimate All-new sections covering scope of work, wage scales in the US, and a project overhead checklist Considerations for adding profit and contingencies to an estimate Estimating Building Costs for the Residential and Light Commercial Construction Professional is an essential resource for contractors in residential and light commercial construction, as well as students studying construction management and construction estimating. Estimating Building Costs for the Residential and Light Commercial Construction Professional provides this knowledge in a thorough and comprehensive guide. It takes readers step-by-step through the process of constructing a cost estimate, and provides guidance for incorporating cost estimates into budgeting, scheduling, project management, and more. The estimate is the first step toward a successful project. Properly handled, a construction cost estimate can protect both the contractor and the client from losing money on a project. A step-by-step guide to estimating building costs for contractors—updated to align with CSI MASTERFORMAT™ 2020 Few aspects of a construction project are more fundamental than the cost estimate, which can mean the difference between a professionally executed project and a financial and legal disaster 1dab0a648d

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. The book is an efficient and practical tool for developing contracts or controlling project costs. Companies live or die on the basis of estimating their costs. 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. 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 1dab0a648d

Estimating for Residential Construction offers a concise introduction to residential estimating processes and to the steps involved in accurately preparing a cost estimate. Readers will learn 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. Specifics on how to prepare a bill of materials from a takeoff, how to summarize and prepare a bid for a custom home, assessing markup on an estimate, and how to review a bid before it is submitted to the client is also covered as well as information on preparing estimates for remodeling jobs. Author David Pratt uses clear, straightforward language to describe the basic arithmetic of residential construction work, along with logical explanations of how to prepare takeoffs 1dab0a648d

Get the confidence and know-how you need to deliver more accurate cost estimates and improve profitability. The 73rd edition of this bestselling cost guide has been updated and expanded to provide you with the information you need to: Estimate projects with confidence and accuracy Improve project planning and budgeting Reduce risk Access detailed construction costs, arranged in the CSI MasterFormat 2010 system, and leverage the resources available in the reference section to construct a winning estimate 1dab0a648d

"Means Building Construction Cost Data 1999" is the most used, most quoted, most respected unit price guide available to the construction industry. And it is available in a fully metric edition. It is the professional estimator's first choice for reliable unit costs 1dab0a648d

Volume 1 covers Preliminaries, Earthworks, Concrete Formwork and Reinforcement, Masonry and Waterproofing. You will grasp the construction order and schedule of activities that precede each other quickly and easily than somebody who has no access to 3D models. *Illustrated plan takeoff and measurements of the garage. If you can visualize a building in 3 dimensions, it helps you understand the construction method involved as well as the component items, how they are arranged and built with respect to each other. Volume 1 of this book covers quantity takeoff for a Garage. This is a book for those who want to learn taking off quantities for any building quickly without the help of a lecturer, tutor or supervisor. It's always good to start with simple structures such as a garage if you are learning. This book will give you a walkthrough of the estimating (quantity takeoff) process for a complete house plan. Each phase of the building project has extensive illustrations and detailing to aid your visual comprehension of the building process, construction technology and materials which need to be quantified. *Unpriced Bills of Quantities for material ordering, pricing and tendering. *Construction work items organized according to trades. Learn how to take off quantities for a proposed residential house, from the foundations to the roof, including external works (site clearing, drainage, boundary walls, landscaping and paving). *Bills of Quantities for a Detached Garage for two cars. In Elemental format, these are Foundations, Ground Floor Construction, Structural Frame, External Envelope and Finishes, Floor Finishes and Internal Wall Finishes. See the quantities evolve as you build the house. Clients, contractors, architects, engineers, estimators, quantity surveyors, property developers, cost accountants and students will find this book useful. *Scaled 3D building illustrations and drawings of the relevant Bill items and garage. Old fashioned colleges and universities underestimate the importance of 3D architectural models when it comes to teaching quantity takeoff. *Takeoff quantities and digital dimension sheet entries 1dab0a648d

Make your construction process more efficient by developing complete and accurate estimates. This revised edition reviews types of estimates and when to use them, how to integrate estimating into other management functions, and the benefits of computer estimating. Includes house plans, work sheets, and checklists 1dab0a648d

From developing bid strategies to submitting a completed bid, this innovative textbook introduces the fundamentals of construction estimating through a real life case study that unfolds across its 24 chapters. "Construction Cost Estimating equips a new generation of students and early-career professionals with the skills they need to bid successfully on projects. Construction Cost Estimating ensures that readers are familiar with the entire estimating process before they even set foot on the jobsite"-- 1dab0a648d

The 74th edition of this bestselling cost guide has been updated and expanded to provide you with the information you need to estimate projects, planning & budgeting. The Building Construction Cost Data 2016 Get the confidence and know-how you need to deliver more accurate cost estimates and improve profitability 1dab0a648d

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 1dab0a648d

Online resources provide instant access to examples of authentic construction documents, including complete, detailed direct work estimates, subcontractor work estimates, general conditions estimates, markups, and summary schedules. Through its unique mix of real-world examples and classroom-tested insights, Construction Cost Estimating ensures that readers are familiar with the entire estimating process even before setting foot on the jobsite. Exercises at the end of each chapter offer hands-on practice with core concepts such as quantity take-offs, pricing, and estimating for subcontractor work. From developing bid strategies to submitting a completed bid, this innovative textbook introduces the fundamentals of construction estimating through a real-life case study that unfolds across its 24 chapters. Construction Cost Estimating equips a new generation of students and early-career professionals with the skills they need to bid successfully on projects 1dab0a648d

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Estimating Building Costs and Appraising Buildings 1dab0a648d

Manual on construction industry cost accounting in the USA - demonstrates how to estimate labour cost, equipment cost, overhead cost, etc. 262 to 265, diagrams, illustrations, references. , and includes measurement techniques. Bibliography pp 1dab0a648d

Quantity Takeoff2. The purpose of this manual is to enable students to gain fundamental knowledge of estimating the cost of building construction projects. Pricing General Expenses6. To overcome this constraint, it is necessary to know precisely the cost of services. The first module addresses the preparation of an estimate for construction and describes the entire submission process. Each module is divided into chapters. Summary and BidTo decode these six steps into an effective and accurate estimation method, the manual is divided into three modules. 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. And it would be the role of an Estimator. Recap Quantities3. 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. Pricing the Recap4. A detailed estimate (Bid Estimate) can be analyzed in terms of the SIX principal stages of the process:1. Pricing Subcontractor's work5. 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. 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. 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. The procedures used for estimating vary from company to company. Unfortunately, there are no specific rules, as it accounts, for obtaining a good estimate, even among individuals within a company. So, in this manual we will focus more on estimations' method rather than techniques of construction 1dab0a648d

This pocket-sized book is a concise guide to the basics of estimating construction costs for residential and light commercial building projects. It takes readers through five phases that lead to a successful estimate: initial assessment, work analysis, programming, costing and cost distribution and summarization. It provides a step-by-step guide to estimating the total cost of a construction project. , detailed information about Value Engineering, scheduling, subcontractor selection, bid summarization, and so on. The book could also serve as a textbook for estimating classes in construction management programs at universities and community colleges. The book's primary targets are small contractors; however, the principles set forth in the book are applicable to all contractors. g. 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. The last section of the book provides useful but not readily available information for estimators on diverse topics, e. An extensive glossary of construction terms is also included 1dab0a648d

A comprehensive treatment of the fundamental concepts, methods and applications of cost control for a variety of construction project sizes and contract types. Treats the latest advances with network-based methods and computers, claims, cash flow forecasts and trends. Provides a detailed explanation of a cost plan and principles relating to conventional and CPM-based computerized control of progress, manhours, materials, equipment, subcontract costs, indirect costs and change orders. Begins with the preconstruction phase and continues through the construction and commissioning phases. Includes flow charts, tables, reports, glossary, bibliography, and an appendix that illustrates estimating and cost breakdown structure 1dab0a648d

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. All of the major construction items, including site work, concrete and masonry, wood and metal framing, doors and windows, and more are covered. 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 1dab0a648d

change orders. -- Personal help when you need it Should you need assistance to apply Means data to your work, just call the Means Estimating Hotline. S. renovation work. -- Means Open Shop Building Construction Cost Data Service will assist you to. There's no charge for this service to you as a subscriber. The latest costs for accurate budgeting and estimating of new commercial and residential construction. and major locations in Canada. cost engineering. -- Develop benchmark prices for change orders -- Plug gaps in preliminary estimates, budgets -- Double check your figures -- Estimate complex projects -- Substantiate invoices on contracts -- Price ADA-related renovations -- Estimate projects anywhere in the U 1dab0a648d

How to succeed in the construction business—step-by-step guidelines for estimating To be competitive, contractors and homebuilders need to know how to generate complete, accurate estimates for labor and material costs. This book guides readers through the entire estimating process, explaining in detail how to put together a reliable estimate that can be used not only for budgeting, but also for developing a schedule, managing a project, dealing with contingencies, and ultimately making a profit. Completely revised and updated to reflect the new CSI MasterFormat 2010™ system, the Second Edition of this practical guide describes estimating techniques for each building system and how to apply them according to the latest industry standards. Complete with many new graphics and references to professional construction cost databases, the new edition provides experienced contractors and novices alike with essential information on: How to correctly interpret plans and specifications, reflecting updates to contract documents since the first edition Computer estimating techniques and new estimating software for performing quantity takeoff The best methods for conceptual estimating as well as the extremely 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 and budgeting for subcontractor work. Cost considerations and quantity takeoff and pricing are included for virtually every type of work found in residential and light commercial projects, from demolition, concrete, and masonry to windows and doors, siding, roofing, mechanical and electrical systems, finish work, and site construction 1dab0a648d

Reduce cost overruns and avoid scheduling problems by developing complete and accurate construction cost estimates. This edition presents information on computerized scheduling; tables, forms, and checklists; a glossary; and many examples including an actual floor plan and other drawings. Estimating for Home Builders describes the techniques—including the shortcut methods—that ensure success in the building business. Covers all of the necessary cost factors, such as materials, labor, tools, supplies, equipment, subcontracts, overhead, and markup 1dab0a648d

The construction professionals choice for Cost Data, the 65th edition provides information for developing, -auditing and analyzing cost estimates, access over - 23,500 up to date unit prices for all phases of building 1dab0a648d

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. 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. 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 1dab0a648d

cost tables, reference data, estimating tips by division, productivity data, City Cost Index expanded to over 930 Zip Codes in the U. City Cost Index -- Now with 930 Zip Code Sectional Centers With nearly 600 more locations added to the City Cost Index for 1997, you can index your projects more closely to labor and materials price conditions for any location. Crew and Equipment Tables over 300 typical trade labor crews, equipment and their costs provide the all-important details for analyzing labor costs by the hour and by the day. Extensive Reference Data Supplemental data, keyed to the unit prices, offer additional cost information and specifications for determining quantities and sizes. costs are provided for 58 typical commercial, municipal and residential buildings -- a benefit not offered by competitors. S. Includes suggested estimating procedures and problems to avoid. and selected locations in Canada. 1997 Service Overview -- New Copy of Means Building Construction Cost Data 1997 Up-to-date unit prices, Sq. Ft. -- Free -- Estimating Hotline For Subscribers only. 1997 Square Foot and Cubic Foot Costs -- Division 17 For reliable conceptual stage budgets and estimates, Sq. Estimating Tips Each MasterFormat division begins with a checklist of tips and pointers to consider when estimating with unit prices listed in the division which follows. -- Quarterly Updates You'll receive the informative new DI Quarterly/ Change Notice publication combining the closely-read Design-Intelligence newsletter with Means Change Notice updates. for reliable budget M/E estimates. Up-to-date Unit Price Tables Detailed unit price breakdowns by labor-hours, crew & daily output, bare costs for materials, labor, equipment and installing contractor's overhead and profit. Ft. -- Free -- Means M/E Assemblies Costs With your "BCCD" you'll receive a complimentary booklet of Means mechanical and electrical assemblies costs 1dab0a648d

and aims at empowering Technical educators, Technical, Brigades and Community colleges students, Apprentices and individuals in the building profession with the necessary skill and knowledge. I strongly believe that the book will be able to even penetrate the international market. The book provides a solution in that it brings together pure mathematics and practical estimation, to avoid a situation whereby students end up failing to realize that the same formulas that are used in Mathematics (math) are applicable in the estimates. The script is entitled Building Estimates and Rates Build Up. Presently our brigades and technical colleges do not have a relevant book to deal with Estimates. Pricing is also a difficult task for most of them as they do not have an idea of how to build up rates. Building Estimates and Rates build up provides a solution to such a problem. Currently, individual builders, apprentices, and students find it difficult to correctly and accurately estimate the quantities of materials required for proposed projects. As an experienced professional in the building industry, quantity surveyor(building material estimator) and a former lecturer for technical colleges, I have realized that there is need to come up with a book that will help students, apprentices and individual builders to easily understand the subject of estimating and rates build up to enable them to apply the skill whenever they have projects 1dab0a648d

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. RSMeans Cost Data, Student Edition provides a thorough introduction to cost estimating in a self-contained print and online package. With clear explanations and a hands-on, example-driven approach, it is the ideal reference for students and new professionals who need to learn how to perform cost estimating for building construction. Features include: Commercial and residential construction cost data in print and online formats Complete how-to guidance on the essentials of cost estimating A supplemental website with plans, specifications, problem sets, and a full sample estimate With more than 930 Location Factors in the United States and Canada, the data includes up-to-date system prices for more than 100 standard assemblies and in-place costs for thousands of alternates—making it easy to customize budget estimates and compare system costs 1dab0a648d

RSMeans 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. 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 1dab0a648d

The use of spreadsheets empowers the reader to go beyond the manual calculations and develop new and more proficient solutions to estimating problems. Of special note is the book's introduction and utilization of computers in the estimating process - enabling readers to utilize new technology in an effective and efficient manner. Furthermore, the principles of estimating for the specialty trades are discussed from the reference of a general building contractor, and how the subcontractor's bid will affect the total project cost is presented. The book is organized in a way that first teaches the reader to perform many of the estimating activities manually, then guides them in developing a computer spreadsheet. Building Construction Estimating furnishes readers with specific details on how a general building contractor derives the cost of a project before it begins, and how the estimate fits into the total construction process. The book provides coverage of such areas as determining labor productivity and wages, selecting equipment and assigning productivity rates and costs, acquiring specialty contractor prices, and assigning overhead costs and profit. The material is presented from the point of view of a general contractor working on a competitively bid stipulated-sum (lump-sum) contract. However, other contract methods and the effects they have on the estimating process are also discussed 1dab0a648d

This data set incorporates the latest costs to accurately budget and estimate new commercial and residential construction, renovation work, change orders and cost engineering used in both Union and Non-Union shops and is aimed at estimating commercial and industrial projects or large multi-family housing projects costing \$3,500,000 and up 1dab0a648d

The professional's choice for construction cost estimating information now includes more costs than ever. It provides more than 500 updated unit prices that had formerly been available only in the western edition, as well as many other new line items 1dab0a648d

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