

Estimating Construction Costs Mcgraw Hill Higher

Estimating is one of the most important steps in the construction process, often determining the success or failure of a project. This work offers a step-by-step approach to the budgeting-estimating process, from concept-budget through schematic and pre-bid estimates to contractor's estimates. 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. 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. 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. 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. The use of spreadsheets empowers the reader to go beyond the manual calculations and develop new and more proficient solutions to estimating problems.

Structural Concrete Cost Estimating

Construction Cost Estimating for Project Control

Sweets Residential Cost Guide 2011

Chemical Engineering Economics

In preparing the sixth edition of Estimating Construction Costs the author has retained the fundamental concepts of estimating that have made the book successful for many years. All of the example problems have been revised with more explanations regarding assumptions used in the calculations. This edition has reorganized and consolidated chapters to increase the clarity of the subject matter for the reader. Extensive new sections have been added on equipment, including graders equipped with GPS, and methods of calculating depreciation, investment, and operating costs of construction equipment. The computer estimating chapter is revised with additional material on the use of computers in preparing estimates for bidding purposes.

The definitive guide to formwork design, materials, and methods--fully updated Formwork for Concrete Structures, Fourth Edition, provides current information on designing and building formwork and temporary structures during the construction process. Developed with the latest structural design recommendations by the National Design Specification (NDS 2005), the book covers recent advances in materials, money- and energy-saving strategies, safety guidelines, OSHA regulations, and dimensional tolerances. Up-to-date sample problems illustrate practical applications for calculating loads and stresses. This comprehensive manual also includes new summary tables and equations and a directory of suppliers. Formwork for Concrete Structures, Fourth Edition, covers: Economy of formwork Pressure of concrete on formwork Properties of form material Form design Shores and scaffolding Failures of formwork Forms for footings, walls, and columns Forms for beams and floor slabs Patented forms for concrete floor systems Forms for thin-shell roof slabs Forms for architectural concrete Slipforms Forms for concrete bridge decks Flying deck forms

1977 Dodge Guide for Estimating Public Works Construction Costs

Building Construction Estimating

Tools for Managing Project Costs

The Engineer's Cost Handbook

NOTE TO THE READER: All forms and material that were previously on a CD-ROM that accompanied this book have been moved to the following web site: <http://booksupport.wiley.com> Tested-and-proven techniques for quick, accurate estimates Here is the first manual that guides engineers, planners, and contractors through the process of estimating the cost of building water treatment facilities. Based on more than eighty years of the two authors' collective experience, the Cost Estimating Manual for Water Treatment Facilities not only enables you to arrive at a dependable estimate, it shows you how to do it quickly with a minimum of information and supporting data. In order to ensure reliability, the authors have compiled and analyzed the results from their own construction cost estimates for more than 500 projects as well as the results from many other engineers and contractors. The manual identifies forty-three treatment processes, nine types of water treatment plants, plus five additional types of advanced water treatment plants. The authors then demonstrate how to calculate costs for each element, accounting for needed mark-ups and allowances in order to arrive at the total plant construction cost. To help you make your own estimates, the manual provides: Examples of cost estimates for different water treatment processes Historical data from several public agencies Sample tables for 10 mgd and 100 mgd product water flow rates for each type of treatment plant Website access with Excel spreadsheets that enable you to perform estimates using your own data Now that the Cost Estimating Manual for Water Treatment Facilities is available, you no longer have to rely on hunches and anecdotal information; you have a proven, scientific method that leads to reliable estimates.

Deliver bug-free software projects on schedule and within budget Get a clear, complete understanding of how to estimate software costs, schedules, and quality using the real-world information contained in this comprehensive volume. Find out how to choose the correct hardware and software tools, develop an appraisal strategy, deploy tests and prototypes, and produce accurate software cost estimates. Plus, you'll get full coverage of cutting-edge estimating approaches using Java, object-oriented methods, and reusable components. Plan for and execute project-, phase-, and activity-level cost estimations Estimate regression, component, integration, and stress tests Compensate for inaccuracies in data collection, calculation, and analysis Assess software deliverables and data complexity Test design principles and operational characteristics using software prototyping Handle configuration change, research, quality control, and documentation costs "Capers Jones' work offers a unique contribution to the understanding of the economics of software production. It provides deep insights into why our advances in computing are not matched with corresponding improvements in the software that drives it. This book is absolutely required reading for an understanding of the limitations of our technological advances." --Paul A. Strassmann, former CIO of Xerox, the Department of Defense, and NASA

Bringing Realism to Estimating

Solutions to Problems in Estimating Construction Costs

Fundamentals of Construction Estimating and Cost Accounting

Dodge guide for estimating public works construction costs

In preparing the sixth edition of "Estimating Construction Costs" the author has retained the fundamental concepts of estimating that have made the book successful for many years. All of the example problems have been revised with more explanations regarding assumptions used in the calculations. This edition has reorganized and consolidated chapters to increase the clarity of the subject matter for the reader. Extensive new sections have been added on equipment, including graders equipped with GPS, and methods of calculating depreciation, investment, and operating costs of construction equipment. The computer estimating chapter is revised with additional material on the use of computers in preparing estimates for bidding purposes.

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 and corrections), 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.

Estimating Building Costs

Project Management for Construction

Roofing Construction & Estimating

Sweets Facilities Cost Guide 2006

This brand-new book 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. 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. The book includes a free access code to the supplemental website with plans, specifications, problem sets, and a full sample estimate.

At least, the author wishes to thank his constantly helpful wife Maggie and his secretary Pat Weimer; the former for her patience, encouragement, and for acting as a sounding-board, and the latter who toiled endlessly, cheerfully, and most competently on the book's preparation. CONTENTS Preface / iii 1. INTRODUCTION / 1 Frequently Used Economic Studies / 2 Basic Economic Subjects / 3 Priorities / 3 Problems / 6 Appendixes / 6 References / 6 2. EQUIPMENT COST ESTIMATING / 8 Manufacturers' Quotations / 8 Estimating Charts / 10 Size Factoring Exponents / 11 Inflation Cost Indexes / 13 Installation Factor / 16 Module Factor / 18 Estimating Accuracy / 19 Estimating Example / 19 References / 21 3. PLANT COST ESTIMATES / 22 Accuracy and Costs of Estimates / 22 Cost Overruns / 25 Plant Cost Estimating Factors / 26 Equipment Installation / 28 Instrumentation / 30 v vi CONTENTS Piping / 30 Insulation / 30 Electrical / 30 Buildings / 32 Environmental Control / 32 Painting, Fire Protection, Safety Miscellaneous / 32 Yard Improvements / 32 Utilities / 32 Land / 33 Construction and Engineering Expense, Contractor's Fee, Contingency / 33 Total Multiplier / 34 Complete Plant Estimating Charts / 34 Cost per Ton of Product / 35 Capital Ratio (Turnover Ratio) / 35 Factoring Exponents / 37 Plant Modifications / 38 Other Components of Total Capital Investment / 38 Off-Site Facilities / 38 Distribution Facilities / 39 Research and Development, Engineering, Licensing / 40 Working Capital / 40

Estimating Software Costs : Bringing Realism to Estimating

Estimating Construction Costs

Electrical Construction Cost Estimating

Construction Estimates and Costs

This practical guide to cost studies of buildings has been updated and revised throughout for the 5th edition. New chapters have been added on the RICS New Rules of Measurement (NRM) for order of cost estimating and elemental cost planning, and on the procurement of construction projects.

Work with the most extensive, respected, and timely database in the construction industry - developed by the construction experts at McGraw-Hill Construction and BNI Building News. Keep your estimates, bids, specifications, and cost checks right on target with precise, thoroughly researched unit construction costs. Ensure data accuracy to your region with Sweets 1,000+ location modifiers. Sweets 2010 Residential Cost Guide gives you the data and calculation tools you need to compute all construction costs on your next job, accurately. Including overhead, profit, productivity rates - and come in at or below budget.

Dodge Guide for Estimating Public Works Construction Costs

Ri Im Estimating Construction Cost

Construction Planning, Equipment, and Methods

Preconstruction Estimating

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.

McGraw-Hill Construction Sweets Facilities Cost Guide 2006 from BNI Building News and McGraw-Hill Construction give you more value and better data than any similar guide available. Flip through the book for the industry's most precise, most thoroughly researched electrical construction costs. Your estimates, bids, specifications, and cost checks will come in right on target with this annually updated guide. Labor, materials, and equipment prices have been calculated from the average cost of actual jobs completed in 1000s of locations nationwide and presented in CSI MasterFormat -- the industry standard for estimating. With this valuable resource, you'll be able to accurately calculate overhead, profit, and productivity rates. A handy geographical conversion table is included for adjusting local costs.

Fundamental Concepts for Owners, Engineers, Architects, and Builders

Estimating Construction Costs ... Second Edition

Cost Estimating Manual for Water Treatment Facilities

Process and Practices

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.

Offers coverage of each important step in engineering cost control process, from project justification to life-cycle costs. The book describes cost control systems and shows how to apply the principles of value engineering. It explains estimating methodology and the estimation of engineering, engineering equipment, and construction and labour costs

RSMeans Cost Data, + Website

Dodge Guide for Estimating Public Works Construction Costs. No.1- (1969).

With Computer Applications

Estimating Construction Costs McGraw-Hill Science/Engineering/Math

Offers authoritative coverage of the theoretical and applied aspects of the design and construction of economical, structurally dependable forms for concrete work, including numerous diagrams, tables, and examples

Construction Cost Estimating

Formwork for Concrete Structures

Cost Studies of Buildings

Budget Through Bid