

Building Estimating And Costing By Rangwala

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, a

"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

The book is written in simple language and self explanatory, reflects the image of the author's long experience in field and teaching as well. The new edition of the book is a complete unit, complete in itself. The presentation of the matter is simple and excellent.

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.

Estimating for Building & Civil Engineering Work

Project Planning and Cost Estimating

Estimating and Costing in Civil Engineering

Parametric Cost Modeling for Buildings

Estimating and Tendering for Construction Work

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.

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.

Guidelines for estimating the cost of repairing building damage cover estimates for electrical wiring, kitchen cabinets, central air conditioning, and thermal insulation

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.

How to Estimate with RSMeans Data

Estimating Building Costs for the Residential and Light Commercial Construction Professional

Estimating and Measurement for Simple Building Works in Hong Kong

Estimating in Building Construction

Estimating Building Costs

"...my message to lecturers in building/quantity surveying is to 'put it on your course list for essential reading' and to students and practitioners 'buy it' " Building Technology & Management Provides a practical introduction to understanding the costs encountered on a building project together with an appreciation of the many factors influencing them.

Successful cost management and value engineering in construction is based on accurate and early estimations of cost, and this book is the quickest route to creating a cost plan from scratch. The budgeting system described in this book will help the reader to: document project scope at a level that provides excellent cost control at design stage establish the parameters of potential sites before selecting one determine the amount of financing needed before deciding to bid on a project make a detailed and robust building project budget determine the rental rate necessary to see if a building project will be marketable The technique used is a parametric cost system, not the square foot cost system used by most who quote an up-front building cost. To help calculate the parameter quantities and price them as quantified, this book comes with 5 electronic templates to calculate program scope; i.e. – space, configuration, HVAC loads, plumbing and electrical. It also includes: the author's parametric cost database and cost template to prepare the construction estimate a soft cost template to price out all related program costs, convert them to a monthly cash flow, incorporate financing costs and then reveal the final budget an operation and maintenance annual cost template to calculate those variable and fixed costs necessary to run the building and then convert the result into the necessary rental rate to capitalize all costs The spreadsheets, data, advice, and templates, are all introduced through a detailed case study, placing everything in an easy to understand practical context. This will prove an invaluable guide not only for estimators and cost engineers, but also developers, clients, and architects.

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.

This work provides principles & techniques for the evaluation of construction design, emphasizing the importance of strong analysis skills & exploring estimation. It aims to provide readers with a balanced & cohesive overview of these two areas.

Green Building

Introduction to Estimating for Construction

Construction Cost Analysis and Estimating

Roads, Bridges, Tunnels, Foundations

The New Building Estimator

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 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.

Construction Cost Estimating equips a new generation of students and early-career professionals with the skills they need to bid successfully on projects. 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. 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. 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.

SPON'S ARCHITECTS' AND BUILDERS' PRICE BOOK 2020, compiled by AECOM, still provides the most accurate, detailed and professionally relevant construction price information for the UK. Its unique Tender Index, updated through the year (2015 = 100), gives an ongoing reality check and allows you to adjust for changing market conditions. Although it suits a wide range of project sizes, this is the only price book which sets out a detailed cost base for contracts exceeding £4,000,000 in value. Use the access code inside the front cover of the book to get set up with an ebook of this 2020 edition on the VitalSource® Bookshelf platform, available for access and use until the end of December 2020. As well as an overhaul of prices, several new items have been added, including: a mental health cost model a primary health care cost model expanded ranges of entrance matwells and of Forticrete blocks ... along with the standard features you have come to expect from SPON'S ARCHITECTS' AND BUILDERS' PRICE BOOK: 20,000 prices for the most frequently specified items, the majority with labour constants and detailed build-ups Hundreds of alternative materials prices for the more unusual items Detailed guidance on wage rates, daywork, cost limits and allowances, property insurance and professional fees, plus useful formulae, design criteria and trade association addresses Updates, free of charge, twice a year - see inside for registration details. Updates are available online at www.pricebooks.co.uk

Process and Practices

Plan Reading and Material Takeoff

Estimating & Costing for Building and Civil Engineering Works Based on Indian Standard Method of Measurement (I.S. 1200)

Spon's Architects' and Builders' Price Book 2020

Construction Cost Estimating

"Completely revised, updated, and reorganized to conform to Masterformat 2010, this new edition provides a step-by-step guide to estimating building costs for contractors. A series of questions at the end of each chapter helps the reader summarize the content. In addition, the chapter on computer estimating has been expanded to cover the new estimating software for performing quantity takeoff by computer, and content covering the procedures for conceptual estimating as well as parametric estimating has been added"--

The RICS New Rules of Measurement mean that the construction industry now has a way of allowing a more consistent approach to the measurement and estimating of buildings from the start of a project, right through until the end, and beyond. Estimating and cost planning using the New Rules of Measurement offers comprehensive guidance on all the technical competencies concerned with estimating throughout the precontract stages. It provides a full commentary on NRM, with detailed and comprehensive examples of how to measure estimates and cost plans in accordance with this new prescriptive approach. For both students and practitioners, the acquisition of technical competencies is by practice; this book offers step-by-step worked examples to follow as well as an exercise on each topic. Key Features • helps dispel anxieties about using a new method in an important area of fee generation • based on the author's successful Roadshows, organised by the RICS to promote the NRM • companion websites provide support for learning:

<http://ostrowskiquantities.com/> <http://ostrowskiquantities.com/aand>

www.wiley.com/go/ostrowski/estimating www.wiley.com/go/ostrowski/estimating/a

The aim of this book is to offer advice and information on preparing and using estimates in the civil engineering industry. It deals with estimating at different stages of construction projects, and with the practice of estimating.

This code of practice, long established as a leading publication for the construction industry, provides an authoritative guide to essential principles and good practice in estimating for construction work. The eighth edition has been completely rewritten to include much more educational and contextual material as well as the code of practice.

New Code of Estimating Practice

Basic Skills for Building Construction

A Practical Guide to Estimating the Cost of Labor and Material in Building Construction ...

Introduction to Estimating, Plan Reading and Construction Techniques

A Practical Guide to Estimating the Cost of Labor and Material in Building Construction, from Excavation to Finish; with

Various Practical Examples of Work Presented in Detail, and with Labor Figured Chiefly in Hours and Quantities

Written for students taking courses in building and surveying, 'Estimating for Builders and Surveyors' describes and explains the method used by the estimator to build up prices or rates for items described in the SMM7 format. Each chapter is a self-contained unit related to a particular element in the building. Worked examples throughout reflect both traditional and up-to-date technology. Written by an author team of academics and professional surveyors, this book continues to be an invaluable introduction to the subject of estimating.

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 technologies, 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

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.

A Complete Resource for Residential and Light Commercial Contractors -- based on the latest construction materials and methods. Learn how to: read and interpret building plans create an accurate takeoff, using a complete set of working drawings. Each chapter covers a major construction division, such as concrete, masonry and carpentry -- and uses plans, details and tables to illustrate plan reading and takeoff procedures. A checklist for each material division helps ensure that nothing is left out of your takeoff. Includes a complete set of residential plans from Home Planners, Inc., the nation's leading provider of home plans. With a detailed material takeoff, from site work to electrical. With over 160 illustrations, including commercial construction details.

Project Management for Construction

Theory and Practice Including Specifications and Valuation

Project Cost Estimating

Fundamental Concepts for Owners, Engineers, Architects, and Builders

Estimating in Heavy Construction

"Means catalog no. 67343"--P. [4] of cover.

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.

For courses in Construction Estimation, Cost Estimation, and Project Management. 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.

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 for Builders and Surveyors

Construction Estimating and Costing

Estimating and Tendering for Building Work

Cost Studies of Buildings

How to Estimate Building Losses and Construction Costs

This book is an introductory text on building measurement and estimating for simple buildings in Hong Kong, based on the Hong Kong Standard Measurement of Building Works 4th Edition Revised 2018 (HKSM4 Rev 2018). It provides a toolkit for students and surveying technicians to the subject. This second edition updates the contents in line with the HKSM4 Rev 2018 and incorporates the latest industry developments. The main text is divided into five parts following the development of a typical project. Part 1, Building the project team, introduces the typical project. Part 2, Deciding the procurement strategy, explains the various procurement decisions to be made by an employer before estimating and measurement work takes place. Part 3, Preparing for tender, covers the tendering methods, tender documentation and estimating techniques used by Quantity Surveyors. Part 4, Measuring quantities, introduces measurement principles and HKSM4 Rev 2018 detailed review of the measurement methods for each major trade, with worked examples. Part 5, Estimating unit rates, explores the basic unit rate preparation. The book contains worked examples from real Hong Kong building projects, self-assessment questions, reminders and It is essential reading for Hong Kong construction and surveying students, international Quantity Surveyors working in the local area and international examples of Quantity Surveyors practice.

How to succeed in the construction business—step-by-step guidelines for estimating To be competitive, contractors and homebuilders need to generate complete, accurate estimates for labor and material costs. This book guides readers through the entire estimating process, explaining 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 3rd Edition of this practical guide describes estimating techniques for each building system and how to apply them according to the latest industry standards. Cost considerations and quantity takeoff and pricing are included for virtually every type of work found in residential and light commercial construction: demolition, concrete, and masonry to windows and doors, siding, roofing, mechanical and electrical systems, finish work, and site construction. With many new graphics and references to professional construction cost databases, the new edition provides experienced contractors and estimators with essential information on: How to correctly interpret plans and specifications, reflecting updates to contract documents since the first edition; Estimating techniques and new estimating software for performing quantity takeoff; The best methods for conceptual estimating as well as the useful topic of parametric estimating; How to allocate the right amounts for profit and contingencies, and other hard-to-find professional estimating information; and How a unit price estimate is built along with labor issues and budgeting for subcontractor work.

It deals in a practical and reasonable way with many of the estimating problems which can arise where building and civil engineering works are concerned and to include comprehensive estimating data within the guidelines of good practice. The early part of the book has been completely revised and contains chapters useful to students and practitioners alike for the development of the estimating process resulting in the presentation of estimates 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 Standard Method of Measurement for Building Works (SMM7). The comprehensive information on basic principles of estimating from the first edition of 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 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 building works, increases have been experienced in productivity over recent years and again estimators with their own records should substitute values for the work.

For Residential and Light Commercial Contractor

Quantity Surveying

Estimating and Project Management for Building Contractors

Estimating Construction Costs

