

Read Book Building Estimating
And Costing By Rangwala

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***Building Estimating And
Costing By Rangwala
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***Construction Cost
Estimating Routledge
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.***

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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

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even includes discussion of negotiated contracts. A comprehensive reference for construction professionals such as cost estimators and project managers.

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

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***as the code of practice.
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
Construction Cost
Estimating
Estimating Building Costs
Estimating Building Costs
for the Residential and***

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***Light Commercial
Construction Professional
Estimating for Building &
Civil Engineering Work
Incorporating Building in
Public Works
Administration, Estimating
and Costing***

*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*

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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 CSIMasterFormat 2010TM 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. Cost considerations and quantity takeoff and pricing are included for virtually every type of work found in residential and

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lightcommercial projects, from demolition, concrete, and masonry to windows and doors, siding, roofing, mechanical and electrical systems, finish work, and site construction. 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

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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 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

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the matter is simple and excellent.

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

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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.

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 from 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

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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

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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

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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,

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establish the prices of the elements, the expenses of the general conditions and finally, close the submission.

*Construction Estimating
Construction Cost Analysis
and Estimating*

*2020 National Construction
Estimator*

*Facilities Construction
Costs with Rsmeans Data:
60202*

*Project Planning and Cost
Estimating*

Provides the 300 most useful manhour tables for practically every item of construction. Labor requirements are listed for sitework, concrete work, masonry, steel, carpentry,

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thermal and moisture protection, doors and windows, finishes, mechanical, and electrical. Each section details the work being estimated and gives appropriate crew size and equipment needed. This new revised edition contains National Estimator, a computer estimating program. This fast, powerful program and complete instructions are yours free on high-density 3 1/2" disk when you buy the book.

"...my message to lecturers in building/quantity surveying is to 'put it on your course list for essential reading' and to students and practitioners

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'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.
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.
The Subject Electrical
Design Estimating And
Costing Covers An Important

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Functional Area Of An Electrical Diploma Holder. The Subject Is Taught In Various Forms In Different States. In Some States, It Is Covered Under Two Subjects, Namely, Electrical Design & Drawing And Electrical Estimating & Costing. In Some States It Is Taught As An Integrated Subject But Is Split Into Two Or Three Parts To Be Taught In Different Semesters. To Cater To The Needs Of Polytechnics Of Different States, The Content Of The Course Has Been Developed By Consulting The Curricula Of Various State Boards Of Technical Education In The Country. In

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Addition To Inclusion Of Conventional Topics, A Chapter On Motor Control Circuits Has Been Included In This Book. This Topic Is Of Direct Relevance To The Needs Of Industries And, As Such, Finds Prominent Place In The Curricula Of Most Of The States Of India. The Book Covers Topics Like Symbols And Standards, Design Of Light And Fan Circuits, Alarm Circuits, Panel Boards Etc. Design Of Electrical Installations For Residential And Commercial Buildings As Well As Small Industries Has Been Dealt With In Detail. In Addition, Design Of Overhead And Underground Transmission And

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Distribution Lines, Sub-Stations And Design Of Illumination Schemes Have Also Been Included. The Book Contains A Chapter On Motor Circuit Design And A Chapter On Design Of Small Transformers And Chokes. The Book Contains Theoretical Explanations Wherever Required. A Large Number Of Solved Examples Have Been Given To Help Students Understand The Subject Better. The Authors Have Built Up The Course From Simple To Complex And From Known To Unknown. Examples Have Generally Been Taken From Practical Situations. Indeed, Students Will Find This Book Useful Not Only

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For Passing Examinations But
Even More During Their
Professional Career.

Estimating in Building
Construction

Estimating Home Building
Costs

Sixth Edition

Building Construction

Estimating

Construction Estimating

Reference Data

*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*

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reflects the popular approach of tracing a complete project's progress.

The use of computers as a key estimating tool is incorporated throughout.

"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

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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

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*America, Inc. All Rights
Reserved*

*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*

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*electronic version of RS
Means Building
Construction Cost Data, and
sample building plans and
spreadsheets, enabling you
to practice creating a
complete construction
estimate.*

*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*

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*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*

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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.

Construction Estimating and Costing

Quantity Surveying

Introduction to Estimating,

Plan Reading and

Construction Techniques

Briefing Report to the

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Chairman, Subcommittee on
Federal Services, Post Office
and Civil Service,
Committee on Governmental
Affairs, U.S. Senate
RSMMeans Estimating
Handbook*

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

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by an author team of academics and professional surveyors, this book continues to be an invaluable introduction to the subject of estimating.

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

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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.

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.

Facilities Construction Cost Data is

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devoted specifically to the needs of professionals responsible for the maintenance, construction and renovation of commercial, industrial, municipal and institutional properties. This reference provides immediate access to every imaginable cost associated with facilities construction and renovation, plus many common maintenance items with more than 48,000 unit price line items and thousands of assemblies.

Industrial Construction Estimating
Manual

Green Building

How to Estimate with RSMMeans
Data

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A Step-by-Step Guide to a
Successful Estimate

Roads, Bridges, Tunnels,
Foundations

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

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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.

It deals in a practical and reasonable way with many of the estimating problems which can arise where building and civil

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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

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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

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have been experienced in productivity over recent years and again estimators with their own records should substitute values appropriate to their work.

Comprehensive treatise on estimating Unique wealth of estimating data Fully updated based on SMM7

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

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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

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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!*

Building Construction Estimating

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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

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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

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spreadsheets empowers the reader to go beyond the manual calculations and develop new and more proficient solutions to estimating problems.

*Estimating in Heavy Construction
Estimating and Project
Management for Building
Contractors*

*Electrical Design Estimating and
Costing*

*Estimating for Building and Civil
Engineering Works*

*Estimating and Tendering for
Building Work*

**To understand Construction
Estimating one must also
understand plan reading and
construction techniques. This
book is designed to teach the
construction student these**

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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

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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

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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). 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

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construction projects like roads, bridges, tunnels, and foundations.

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

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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-

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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. 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." --

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**Construction Estimating and
Bidding: Training Manual to
Acquire Fundamental
Knowledge in Estimating
Building Construction Costs**

**Estimating for Builders and
Surveyors**

**Basic Skills for Building
Construction**

**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. A
Handbook for Architects,
Builders, Contractors,
Appraisers, Engineers,**

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Superintendents and Draftsmen

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

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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

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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.

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

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reorganized with new and expanded technical information. 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

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over time Complete reorganization to the newest CSI MasterFormat classification system

An international edition of this product is available for sale overseas and in international markets.

FUNDAMENTALS OF CONSTRUCTION ESTIMATING

3rd edition presents estimating procedures in a clear and precise manner explaining all the procedures of estimating the cost of construction work such as quantity takeoff, pricing of the contractor's work, pricing sub-trade work, pricing site overhead and compiling bid documents. This book offers readers thorough instruction on the principles of construction estimating and the

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skills to become a professional estimator by using drawings for two complete projects - one residential and one commercial, thereby leading the reader through the complete estimating process which can be used in various trades on many different types of construction projects. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Fundamentals of Construction
Estimating

The New Building Estimator

Introduction to Estimating for
Construction

Estimating and Tendering for
Construction Work

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Postal Service : Estimating the Cost
of Construction Projects

*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*

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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

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*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-*

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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,

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*certified cost consultant
"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*

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procedures for conceptual estimating as well as parametric estimating has been added"--

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

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*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*

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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

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*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.*

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