

## Means Unit Price Estimating Methods

Means Unit Price Estimating Methods Estimating Building Costs Unit Price Estimating Methods Cost Estimating Cost Estimating Basic Unit Prices for Cost Estimating General Construction Means Unit Price Estimating - A Comprehensive Guide Estimating Building Costs: Parts 1-2 Construction Cost Estimating for Project Control Heavy Construction Cost Data Product Cost Estimating and Pricing A Methodology for Estimating Construction Unit Bid Prices Cost Estimator's Reference Manual Cost Estimating with Microcomputers Building Construction Cost Data 1985 Building Material Estimates and Rates Build Up Estimating, bidding, scheduling Means Landscape Estimating How to Estimate with Metric Units The Red Book - Unit Cost Estimating for Construction and Remodeling R.S. Means Company Wayne J. DelPico John H. Chiang Rodney D. Stewart Phillip F. Ostwald Mahoney WD Ed William Shepherd Lowndes James M. Neil Michael R. Tyran Osman Cuneyt Erbatur Rodney D. Stewart Rodney D. Stewart R. S. Means Company Staff Moremi Mareka Jack Payne Jones Sylvia Hollman Fee RSMeans Eugene C. Bergeron

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explains and demonstrates the methods and procedures of unit price estimating from the plans and specifications to the estimate summary special features fully updated sample estimate by masterformat division discussion of computerized estimating methods companion guide to means building construction cost data

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this revision of the author's bestselling earlier work on cost estimating has been updated to provide currently applicable examples data and techniques two new chapters have been added covering computer tools and models for cost estimating where to get these tools and the features to look for software cost estimating with special emphasis on the effect of case tools on software productivities and resulting software costs a complete set of inflation tables is now included to permit conversion from any year dollars to any other year dollars from 1959 through 1997 retains its comprehensive coverage of the elements needed to embark on a cost estimating task strengthened are the invaluable parts of the book which tell the estimator how to produce a competitive and credible cost estimate manufacturing standards for hardware and electronics are retained as are handy tables for determining the costs of engineering design documentation drafting and testing

the internship company does not have a standard procedure for preparing an engineer's estimate of probable construction cost document engineer's estimate for municipal projects every project manager employs a methodology that is a slightly different variation of the historical data approach the internship objective was to develop a construction unit price estimation model that provides more accurate results than the company's existing unit price estimation methodology for the city of fort worth construction projects to accomplish the internship objective several tasks were conducted including gathering city of fort worth construction projects bid tabulation data including all bids for the past three years developing three construction item unit price databases using the data collected conducting statistical analyses using the unit price databases developing tables and graphs showing the construction cost items and their appropriate estimated unit prices to be used by the project managers in their cost estimates developing an approach to apply construction unit costs which adjusts for unique project characteristics developing guidelines for using the

developed tables and graphs to estimate unit prices for municipal projects using one recent project to compare the company's existing unit price estimation methodology and the new developed model with actual unit bid prices and developing guidelines for updating the unit price database tables and graphs the study made use of both normal and log normal distributions to model the unit bid price data collected from the city of fort worth the factors that are perceived to influence a contractor's unit bid price for a given item were identified and given a degree of impact on the project by the project managers the factor that had the highest impact on the unit bid prices was discovered to be item quantity the unit price estimating methodology presented in this study generated a better fit than the internship company's original method for predicting the actual average unit bid prices for the one case study the methodology was applied the electronic version of this dissertation is accessible from hdl handle net 1969 1 148388

written by acknowledged experts in their field this reference presents the fundamental equations principles practices data and methods used by cost analysts to estimate the cost of work activities and work output it covers a wide array of topics spanning all engineering disciplines such as mechanical electrical industrial and civil engineering the book discusses how to develop a credible and accurate cost estimate where to get supporting data what tools and techniques are available who to contact about being certified obtaining publications and information and finding training in the profession provided is a cross section of the disciplines and fields needed to address the varied aspects of cost estimating also featured is a chapter on applying artificial intelligence to cost estimating the book will be useful as an introduction for the novice or as a working guide for the professional cost estimator

the script is entitled building estimates and rates build up 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 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 currently individual builders apprentices and students find it difficult to correctly and accurately estimate the quantities of materials required for proposed projects pricing is also a difficult task for most of them as they do not have an idea of how to build up rates presently our brigades and technical colleges do not have a relevant book to deal with estimates building estimates and rates build up provides a solution to such a problem 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 i strongly believe that the book will be able to even penetrate the international market

this book includes step by step instructions for estimating and bidding all phases of construction to help you make a decent profit

a companion to means building construction costs data metric version as well as a stand alone reference on how to do quantity takeoffs in metric units for construction estimates this book presents metric terminology conversion methods and factors and special considerations with applications to various types of construction and materials timed to coincide with the federal government's requirement to metricate federal construction projects in january 1994

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