

COST ESTIMATING TECHNIQUES & METHODOLOGIES

01

Review Summary of Work (Scope Definition)

- Prepare planning Class 4 and 5 cost estimates
- Identify schedule (project activities and durations)
- Collaborative planning with stakeholders – NetPoint *

02

Budgetary Services (Funding, Start-up Packages)

- Budget Level 2 estimates (comparative or check estimates)
- Review and comment on design documents
- Prepare opinions of cost escalation, as needed
- Prepare cash flow projections
- Provide data to support bond offerings
- Evaluate support procedures, processes and system enhancement modifications

03

Prepare Detailed Class 1-3 Cost Estimates

- Deterministic based on drawings and specifications
- Establish a cost breakdown structure (CBS)
- Align CBS with work breakdown structure (WBS)
- UniFormat (system/assemblies)
- CSI master format (work result/specification section orientation)

04

Constructability Reviews

- Inconsistency in drawings
- Referencing (details, specs, etc.)

05

Cost Management During Construction

- Support SOV Review

Ms Means Cost Estimating Guide

Marco Cascella



Ms Means Cost Estimating Guide:

Guidance for Cost Estimation and Management for Highway Projects During Planning, Programming, and Preconstruction Stuart D. Anderson, Keith Robert Molenaar, Cliff J. Schexnayder, National Cooperative Highway Research Program, 2007 How to Estimate with RSMeans Data Saleh A. Mubarak, RSMeans, 2012-04-04 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 **Building and Renovating Schools** Drummey Rosane Anderson, Inc., Joseph Macaluso, David J. Lewek, Brian C. Murphy, 2004-05-28 This all inclusive guide to building and renovating schools covers every step of the process from initial planning needs assessment and design right through moving into the new facility An essential resource for anyone concerned with new school construction or renovation including architects and engineers contractors and project managers facility managers school administrators and school board members building committees community leaders and anyone else who wants to ensure that the project meets the schools needs in a cost effective timely manner The contributors to this book architects construction project managers contractors and estimators who specialize in school construction provide start to finish expert guidance on the process FEATURES Includes guidance on Planning and design Selecting a design team Green design standards and technologies Integrating computer and building automation technology Security equipment design approaches and cost issues Design considerations for specialty spaces like performing arts centers library media centers computer labs and science and art classrooms Board of Contract Appeals Decisions United States. Armed Services Board of Contract Appeals, 2009 **Oversight to Examine Cost Estimating Procedures on Military Construction, Hospitals, Family Housing, and Solar Energy Projects** United States. Congress. House. Committee on Armed Services. Subcommittee on Military Installations and Facilities, 1984 **BIM Handbook** Charles M. Eastman, 2011-04-19 The BIM Handbook presents the technology and processes behind BIM and how architects engineers contractors and sub contractors construction and facility owners AECO can take advantage of the new technology and work process Unlike CAD BIM is a major paradigm shift in the documentation work processes and exchange of project information It facilitates collaboration and further automation in both design and construction AEC professionals need a handbook to guide them through the various BIM technologies and related processes The collaborative nature of BIM requires professionals to view BIM from various industry perspectives and understand how BIM supports multiple project participants The BIM Handbook reviews BIM processes and tools from multiple perspectives the owner architects and engineers contractors subcontractors and fabricators **RSMeans Cost**

Data, + Website RSMeans,2012-04-10 RSMeans Cost Data RSMeans Cost Data for Students 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 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 is the leading source of cost data for construction in North America Visit rsmeans.com to learn more

Estimator's Pocket Book Duncan Cartlidge,2019-02-21 The Estimator s Pocket Book Second Edition is a concise and practical reference covering the main pricing approaches as well as useful information such as how to process sub contractor quotations tender settlement and adjudication It is fully up to date with NRM2 throughout features a look ahead to NRM3 and describes the implications of BIM for estimators It includes instructions on how to handle the NRM order of cost estimate unit rate pricing for different trades pro rata pricing and dayworks builders quantities approximate quantities Worked examples show how each of these techniques should be carried out in clear easy to follow steps This is the indispensable estimating reference for all quantity surveyors cost managers project managers and anybody else with estimating responsibilities Particular attention is given to NRM2 but the overall focus is on the core estimating skills needed in practice Updates to this edition include a greater reference to BIM an update on the current state of the construction industry as well as up to date wage rates legislative changes and guidance notes **Scientific and Technical Aerospace Reports** ,1991 *Project Management Tools and Techniques* Gary L. Richardson,Deborah Sater Carstens,2025-12-16 The latest edition of this textbook fills a significant void in the realm of project management tools and techniques where many existing resources fall short By seamlessly integrating Microsoft Project into the content students are equipped with the essential skills needed to excel in project management The addition of screenshots featuring the most up to date Microsoft Project software enables readers to effectively visualize and implement the concepts discussed in the textbook The third

edition of Project Management Tools and Techniques A Practical Guide continues to prepare students for certification exams like the Project Management Professional Exam ensuring they are well prepared for success in their future careers This updated edition provides a contemporary perspective on this ever evolving subject with five new chapters covering project management and its tools project variability critical chain theory and hybrid models For both students and instructors this textbook offers practical examples and videos that bridge the gap between theory and practice in project management It also includes case studies that provide hands on experience in applying project management techniques and tools Lab assignments are included to further enhance learning For qualified textbook adoptions a test bank PowerPoint slides and sample data are available to support instructors in their teaching endeavors To enrich the learning experience this book is accompanied by a dedicated website designed for both students and instructors Integrated Product and Process Design and Development Edward B. Magrab, Satyandra K. Gupta, F. Patrick McCluskey, Peter Sandborn, 2009-07-28 The second edition of a bestseller this book discusses an integrated product and process design that has been successfully used to conceptualize design and rapidly product competitively priced quality products It examines the overlapping interacting and iterative nature of the engineering aspects that impact the product realization process A detailed introduction to the creation of high quality products the new edition explores the role of innovation requirements engineering smart materials different rapid prototyping methods and life cycle cost determination to name just a few The book delineates proven methods that have been used successfully to create products *Systems Engineering in Context* Stephen Adams, Peter A. Beling, James H. Lambert, William T. Scherer, Cody H. Fleming, 2019-06-21 This volume chronicles the 16th Annual Conference on System Engineering Research CSER held on May 8 9 2018 at the University of Virginia Charlottesville Virginia USA The CSER offers researchers in academia industry and government a common forum to present discuss and influence systems engineering research It provides access to forward looking research from across the globe by renowned academicians as well as perspectives from senior industry and government representatives Co founded by the University of Southern California and Stevens Institute of Technology in 2003 CSER has become the preeminent event for researchers in systems engineering across the globe Topics include though are not limited to the following Systems in context Formative methods requirements Integration deployment assurance Human Factors Safety and Security Decisions Control Systems Modeling Optimization Multiple Objectives Synthesis Risk and resiliency Collaborative autonomy Coordination and distributed decision making Prediction Prescriptive modeling state estimation Stochastic approximation stochastic optimization and control Integrative Data engineering Sensor Management Design of Experiments Agriculture, Rural Development, Food and Drug Administration, and Related Agencies Appropriations for 2012 United States. Congress. House. Committee on Appropriations. Subcommittee on Agriculture, Rural Development, Food and Drug Administration, and Related Agencies, 2011 **Probability Methods for Cost Uncertainty Analysis** Paul R. Garvey, Stephen A. Book, Raymond P.

Covert,2016-01-06 Probability Methods for Cost Uncertainty Analysis A Systems Engineering Perspective Second Edition gives you a thorough grounding in the analytical methods needed for modeling and measuring uncertainty in the cost of engineering systems This includes the treatment of correlation between the cost of system elements how to present the analysis to *Guide to Preparing Feasibility Studies for Energy Efficiency Projects* ,2000 Army Logistician ,2008

Cost-Effective Energy-Efficient Methods for Refurbishment and Retrofitting of Buildings F. Pacheco-Torgal,Claes-Göran Granqvist,Giuseppe Peter Vanoli,Nicola Bianco,Jarek Kurnitski,2025-01-11 Cost Effective Energy Efficient Methods for Refurbishment and Retrofitting of Buildings Materials Technologies Optimization and Case Studies provides up to date knowledge on this important research field Divided over three key parts the book s chapters cover materials and innovative technologies optimization strategies and actual case study applications that highlight the impact of different climatic conditions social factors and the economic specifications of each retrofit process Emphasis is placed on cost efficiency which is key in any energy retrofit process Taking into consideration key changes in the Energy Performance of Buildings Directive EPBD and the European Union Green Deal on Refurbishment and Renovation this book will be a valuable reference resource for materials scientists architects civil engineers and all those working on cost effective and energy efficient retrofitting and building refurbishment Discusses cost effective energy efficient methods for the refurbishment of existing buildings using state of the art technologies Includes detailed case studies that explain various methods and Net Zero Energy Explains optimal analysis and prioritization of cost effective strategies **Management Science, Logistics, and Operations**

Research Wang, John,2013-09-30 This book examines related research in decision management and other behavioral sciences in order to exchange and collaborate on information among business industry and government providing innovative theories and practices in operations research Provided by publisher **Project Management Tools and Techniques**

Deborah Sater Carstens,Gary L. Richardson,2019-11-04 The topic of project management is truly an evolution of art seeking science This activity involves balancing project objectives against the constraints of time budget and quality Achieving this balance requires skill experience along with the use of many tools and techniques which are the focus of this book This new edition provides updated content to incorporate examples from Microsoft Project 2016 and material from the Project Management Body of Knowledge PMBOK Guide sixth edition The chapter structure includes step by step instructions regarding the basic mechanics and various software tools that can be used to assist in the processes To reinforce the textbook s learning objectives extra material is provided on the textbook website This includes mechanical tool examples and lab assignments representative of the chapter topics An external video tutorial library is available to help with various mechanics related to Microsoft Project mechanics An instructor manual is available for qualifying adoptions for classroom use Features Illustrates the use of Microsoft Project throughout the project life cycle Offers templates as productivity enhancement tools Includes supplemental material for students and instructors Provides assignments for hands on

experience Follows the PMI PMBOK Guide model structure that will support a better understanding of the model and help prepare students for PMP and CAPM certification Illustrates both traditional and contemporary management techniques

Strategic Project Analysis Alexia Nalewaik, 2024-12-19 The forming funding approval and planning of a project are key factors in its future success or failure This book explains the use of strategic project analysis and advocates for a closer relationship between economic analysis and project evaluation and provides real world examples of major projects that have used this method The primary quantitative method for decision making in project selection is cost benefit analysis However the method has well known flaws and challenges Using the principles of stakeholders risk ethics and bias the book presents a rationale for broadening traditional project analysis to include both quantitative and qualitative methods The identification of sustainability and resilience benefits and hidden value are highlighted as an equally important factor in assessing projects Written in a clear and accessible style with straightforward maths this book is invaluable to project owners decision makers and management professionals seeking broader tools to evaluate strategic projects as well as students of project management

Unveiling the Energy of Verbal Art: An Emotional Sojourn through **Ms Means Cost Estimating Guide**

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