

# parametric cost modeling for buildings

**Donald E Parker** 



## **Parametric Cost Modeling For Buildings**

Management Association, Information Resources

#### **Parametric Cost Modeling For Buildings:**

Parametric Cost Modeling for Buildings Donald Parker, 2014-05-23 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 The Engineer's Cost Handbook Richard E. Westney, 1997-02-26 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 delineates productivity and cash flow analysis and more NBS Building Science Series ,1974 Green Building Costs Ming Hu, 2023-08-16 Sustainability has become a driver of innovation in the built environment but the affordability of sustainable building remains a significant challenge This book takes a critical view of the real cost of green building It provides readers with a non biased evaluation based on empirical construction cost data and sheds light on the affordability of sustainable buildings Chapters are presented in three parts The first part lays the foundation to demystify the perception of green buildings being expensive to construct by providing empirical evidence that green buildings even net zero buildings are not necessarily more expensive to build than conventional buildings The second part presents empirical evidence common misperceptions of a higher green building construction cost are debunked. The author offers a new framework to explain the construction cost drivers and differences of sustainable buildings the project characteristics and project team characteristics human factors. The third part directs the readers attention to the important role that human factors play in controlling and reducing construction costs with a focus on the project design team A lack of skills expertise and experience

during the design phase is likely to be the biggest contributor to higher construction costs Empirical analysis case studies on LEED certified buildings and interviews with project teams are used to present a pathway to more affordable green building at the end This will be a crucial resource for students and professionals in architecture engineering construction management and planning and energy policy **Digital Management of Construction Costs** Clinton Aigbavboa, Ernest Kissi,2025-01-23 Today software applications make cost estimation and management easier than ever before but the role played by a construction professional who undertakes financial control and performance of a project remains as crucial as ever Digital Management of Construction Costs provides readers with a route to understand how technology is dynamically transforming the construction sector and informs them of digital first practices that can lead to more accurate forecasting and budgeting during the planning process benchmarking and monitoring throughout the expected delivery timeline Theoretical principles and methodological techniques are accompanied by applied investigations of cases where improved efficiencies brought about by the uptake of novel solutions have led to successful bids or project completion Added value is also provided by findings of the literature review a framework conceptualized within the context of digitalization and a discussion on future directions and implications Written by experts in academia who aim to foster further subject matter research by compiling a useful reference resource this book proves to be beneficial to both early career practitioners and professionals in a more advanced stage of their career who wish to keep abreast of the most recent developments in their field Includes the latest academic theories and research as well as accounts of present industry activity in different geographies Bridges a gap between traditional approaches and emerging digital trends to enhance a project s performance never discounting quality and safety of the work Focuses on business intelligence tools which enable multiobjective optimization for both decision making and delivery processes Appraisal and Valuation Pierluigi Morano, Alessandra Oppio, Paolo Rosato, Leopoldo Sdino, Francesco Tajani, 2020-08-10 This book features a selection of the best papers presented at two recent conferences organized by the SIEV Italian Society of Appraisal and Valuation Taking into account the current need for evaluative skills in order to make effective and sustainable investments it highlights the multidisciplinary role of valuation which opens the door for interactions with other sectors scientific and professional fields The book collects twenty two papers divided into three parts Territory selecting which decision support models to apply in complex contexts enhancement of public and private assets evaluating the effects produced by territorial investments valuation approaches to properties risk assessment and strategies for monitoring energy consumption and soil sealing **Measuring Construction** Rick Best, Jim Meikle, 2015-04-17 Despite the size complexity and importance of the construction industry there has been little study to date which focuses on the challenge of drawing reliable conclusions from the available data The accuracy of industry reports has an impact on government policy the direction and outcomes of research and the practices of construction firms so confusion in this area can have far reaching consequences In response to this Measuring Construction

looks at fundamental economic theories and concepts with respect to the construction industry and explains their merits and shortcomings sometimes by looking at real life examples Drawing on current research the contributors tackle industry performance productivity measurement construction in national accounts comparing international construction costs and prices comparing international productivity The scope of the book is international using data and publications from four continents and tackling head on the difficulties arising from measuring construction By addressing problems that arise everywhere from individual project documentation right up to national industrial accounts this much needed book can have an impact at every level of the industry It is essential reading for postgraduate construction students and researchers students of industrial economics construction economists and policy makers Parametric cost estimating model for conceptual cost estimating of building construction projects Kan Phaobunjong, 2002 **Advances in Information** Technology Research and Application: 2011 Edition, 2012-01-09 Advances in Information Technology Research and Application 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Information Technology The editors have built Advances in Information Technology Research and Application 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Information Technology in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Advances in Information Technology Research and Application 2011 Edition has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at http www ScholarlyEditions com Proceedings of the 7th International Conference on Civil Engineering Eric Strauss, 2023-08-30 This book contains research papers presented at the 7th International Conference on Civil Engineering which was held in Singapore from 24 26 March 2023 Significant results contained in the book show the importance of technology in solving engineering issues throughout the world Highlighted topics include climate change disaster relief resilience pollution control and management techniques for construction mitigation and adaptation Many techniques are utilized in a variety of contexts to solve engineering and urban management problems in both developed and developing countries This volume consists of refereed submissions authored by a wide variety of international researchers and practitioners from many perspectives discussing emerging issues in civil and environmental engineering Practical solutions to worldwide issues in hazard mitigation pollution control transportation infrastructure and energy production are emphasized The chapters provide an in depth look at current issues in these areas of engineering that should benefit interested individuals at all levels of expertise Networking and Telecommunications: Concepts, Methodologies, Tools, and Applications Management Association,

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Life Cycle Costing for Construction J.W.
Bull,2003-10-04 The construction industry is becoming increasingly aware of the need to adopt a holistic approach to the design building and disposal of structures With 60 per cent of the total construction budget in most developed countries being spent on repair and maintenance there is an obvious need to design for reliability and durability with more carefully planned maintenance and repair schedules One important facet is to look at how costs are distributed and spent during the lifetime of a structure an approach known as life cycle costing which has the ultimate aim of minimising total lifetime expenditure As an example choosing an inexpensive coating for steelwork may require maintenance every three years whereas a coating which is more expensive may require repairing only once per decade It is a question of balance taking the lifetime costs of the structure into consideration This new book provides an insight into how whole life costing is affecting our approach to designing building maintaining and disposing of structures The book is written for consulting engineers in the fields of civil and structural engineering building designers architects quantity surveyors refurbishing specialists as well as practising civil and structural engineers engaged in planning design construction repair and refurbishment of structures

Advances on Mechanics, Design Engineering and Manufacturing III Lionel Roucoules, Manuel Paredes, Benoit Eynard, Paz Morer Camo, Caterina Rizzi, 2021-04-21 This open access book gathers contributions presented at the International Joint Conference on Mechanics Design Engineering and Advanced Manufacturing JCM 2020 held as a web conference on June 2 4 2020 It reports on cutting edge topics in product design and manufacturing such as industrial methods for integrated product and process design innovative design and computer aided design Further topics covered include virtual simulation and reverse engineering additive manufacturing product manufacturing engineering methods in medicine and education representation techniques and nautical aeronautics and aerospace design and modeling The book is organized into four main parts reflecting the focus and primary themes of the conference The contributions presented here not only provide researchers engineers and experts in a range of industrial engineering subfields with extensive information to support their daily work they are also intended to stimulate new research directions advanced applications of the methods discussed and future interdisciplinary collaborations

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