

Quantitative Methods in Construction Management

James J. Adrian

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Quantitative Methods In Construction Management

Vian Ahmed,Alex Opoku,Zeeshan Aziz

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Management and Design John F. Woodward, 1975-01-01
Design John Frank Woodward, 1975-09-01
Fundamental Theories of Mega Infrastructure Construction Management Zhaohan Sheng, 2017-10-20
Fundamental Theories of Mega Infrastructure Construction Management Theoretical Considerations from Chinese Practices is a collection of decades of research and applications of managing megaprojects using theories of complex systems and management sciences It presents basic classical theory of megaproject management and is a showcase of more than 30 years of research of complex system and management sciences on the theory of megaproject management resulting from the integrating of theory and practice of megaprojects The theory and models have undergone rigorous systematic testing during the management and implementation of megaprojects in China Megaprojects are huge undertakings often in infrastructure bridges tunnels airports etc that involve huge levels of investment often take years to complete and typically run into delays cost overruns and any number of unforeseen problems Over the last few decades no one country has undertaken more of these projects than China and this book presents the fundamental theories underlying the practice of Mega Infrastructure Construction Management as practiced in China Individual chapters provide a basic definition of Mega Infrastructure Construction and its management an overview of the theories behind it the Formation Path basic concepts fundamental principles scientific problems the Method System of Meta synthesis specialized methods in research and intelligent management of Mega Infrastructure Construction Although the theoretical construction management problems in this book are derived from construction practices in China they can be applied universally and extended for great fundamental significance
Modern Construction Management Prof. Frank Harris, Prof. Ronald McCaffer, Andrew Baldwin, Francis Edum-Fotwe, 2021-01-26 While the construction process still requires traditional skills the dynamic nature of construction demands of its managers improved understanding of modern business production and contractual practices This well established core undergraduate textbook reflects current best practice in the management of construction projects with particular emphasis given to supply chains and networks value and risk management BIM ICT project arrangements corporate social responsibility training health and welfare and environmental sustainability The overall themes for the Eighth Edition Modern Construction Management are Drivers for efficiency lean construction underpinning production management and off site production methods Sustainability reflecting the transition to a low carbon economy Corporate Social Responsibility embracing health safety and employment issues Modern contractual systems driving effective procurement Building Information Modelling directed towards the improvement of collaboration in construction management systems
Environmental Management in Construction Heng Li, Zhen Chen, 2007-01-24 Demands on the construction industry are changing and it is now virtually essential for environmental management to be considered at all

stages of a project Many construction managers are finding a quantitative approach useful and this book outlines four quantitative methods which can be applied at different construction stages and which fit within a comprehensive framework of dynamic Environmental Impact Assessment EIA These include a method to quantitatively evaluate and reduce pollution and hazards levels a method to evaluate the environmental consciousness of proposed construction plans a method to reduce on site construction wastes through an incentive reward programme a method to promote C and D waste exchange in the local construction industry With an experimental case study of the application of these methods this book delivers a comprehensive review of environmental management issues in construction With regulatory requirements potentially favouring the quantitative approach this timely guide ensures that contractors will be able to keep pace with environmental management standards

Advanced Research Methods in the Built Environment Andrew Knight, Les Ruddock, 2009-03-16 This book provides a bridge between the introductory research methods books and the discipline specific higher level texts Its unique feature is the coverage of the detailed process of research rather than the findings of research projects Chapter authors have been carefully selected by their expertise discipline and location to give an eclectic range of perspectives Particular care has been taken to balance positivist with interpretivist approaches throughout The authors focus is on the practical consequences of research philosophies strategies and techniques by using their own research and by evaluating the work of others Advanced Research Methods in the Built Environment addresses common topics raised by postgraduate level researchers rather than dealing with all aspects of the research process Issues covered range from the practicalities of producing a journal article to the role of theory in research The material brought together here provides a valuable resource for the training and development of doctoral and young researchers and will contribute to a new sense of shared methodological understanding across built environment research

Engineering Construction Risks Peter Allan Thompson, John G. Perry, 1992 Risk analysis and management an overview When to apply risk management Quantitative techniques for project risk analysis Risk in estimating Contract strategy

Infrastructure Development and Construction Management J. C. Edison, 2020-10-12 This is a comprehensive book on infrastructure development and construction management It is written keeping in mind the curricula of construction management programmes in India and abroad It covers infrastructure development the construction industry in India financial analysis of the real estate industry in India economic analysis of projects tendering and bidding contracts and contract management FIDIC conditions of contract construction disputes and claims arbitration conciliation and dispute resolution international construction project exports and identifying analysing and managing construction project risk Thus this book covers most of the construction management activities that are carried out at different stages of a construction project This is an essential book for students of construction management construction professionals academicians and researchers

Quantitative Methods in Project Management John C. Goodpasture, 2003-12-15 Quantitative Methods for the Project Manager is for professional project

managers who need to know how to make everyday use of numerical analysis It combines theory and practices and is designed to be easily applied

Proceedings of the 28th International Symposium on Advancement of Construction Management and Real Estate Dezhi Li,Patrick X. W. Zou,Jingfeng Yuan,Qian Wang,Yi Peng,2024-11-27 This book presents the proceedings of CRIOCM 2023 sharing the latest developments in real estate and construction management around the globe The conference was organized by the Chinese Research Institute of Construction Management CRIOCM and Southeast University Written by international academics and professionals the proceedings discuss the latest achievements research findings and advances in frontier disciplines in the field of construction management and real estate covering a wide range of topics including new theory and practice of engineering management smart construction and maintenance green low carbon building and sustainable development big data and blockchain construction and real estate economy real estate finance and investment real estate management and housing policy innovative theory and practice of urban governance land use and urban planning and other related issues The discussions provide valuable insights into the implementation of advanced construction project management and real estate market in China and abroad The book offers an outstanding resource for academics and professionals

Construction Management Daniel W. Halpin,Bolivar A. Senior,Gunnar Lucko,2017-08-07 It s often said that the construction professional has to be a jack of all trades and master of all This text covers a wide range of subjects reflecting the breadth of knowledge needed to understand the dynamics of this large and complex industry This edition includes updated chapters on planning and scheduling a new chapter addressing linear scheduling methods material regarding the historical background of construction as a profession and includes an Instructor Resource of solutions to the end of chapter review exercises This text has become a standard course text at many universities The first four editions have enjoyed wide success as an introductory treatment of the subjects which are critical to success in the construction industry This fifth edition preserves the features that have been most appreciated by its users throughout the years and adds suggestions provided by instructors and students through formal surveys and informal feedback to the authors

Leadership in the Construction Industry George Ofori,Shamas-ur-Rehman Toor,2021-03-07 This book presents a new framework for leadership in the construction industry which draws from the authentic leadership construct The framework has three major themes self leadership self transcendent leadership and sustainable leadership Despite its significance leadership has not been given due importance in the construction industry as focus is placed on managerial functionalism At the project level even with the technological advances in the industry in recent years construction is realized in the form of people undertaking distinct interdependent activities which require effective leadership The industry faces many challenges including demanding client requirements and project parameters more stringent regulations codes and systems intense competition in the industry and threats from disruptive enterprise In such a complex environment technology driven and tool based project and corporate management is insufficient It must be complemented by a strategic genuine stakeholder focused

and ethical leadership Leadership in the Construction Industry is based on a study on authentic leadership and its development in Singapore Leadership theories and concepts are reviewed the importance of leadership in the construction industry is discussed and the grounded theory approach which was applied in the study is explained Many eminent construction professionals in Singapore were interviewed in the field study Emerging from the experiences of the leaders documented in this book are three major themes 1 self leadership how leaders engage in various self related processes such as self awareness self regulation and role modeling 2 self transcendent leadership how leaders go beyond leading themselves to leading others through servant leadership shared leadership spiritual leadership and socially responsible leadership and finally 3 sustainable leadership or the strategies leaders employ to make the impact of their leadership lasting A synthesis of these themes and their implications for leadership development is presented before the book concludes with some recommendations for current and aspiring leaders about how they can engage with them This book is essential reading for all construction practitioners from all backgrounds and researchers on leadership and management in construction

Organizational Behaviour In Construction Anthony Walker, 2011-06-20 The core of all successful organizations is the effectiveness with which people work together Individuals have differing characteristics and personalities and the manner in which they interact is the key to meeting organizational objectives This is the case for all organizations but particularly so in construction which is distinctly different from other industries Construction is complex and highly differentiated with a wide range of specialists with disparate professional skills working in a highly integrated way to deliver projects successfully Understanding how the people involved in construction behave and work together is necessary for projects to have successful outcomes Organizational behaviour is an established field in mainstream management literature but general treatments cannot reflect the specific issues and idiosyncrasies of the construction industry and the people who inhabit it Organizational Behaviour in Construction addresses the behaviour of individuals and groups within the different organizations which come together on construction projects and within the organizations created to manage projects It describes how their behaviour impacts on the performance of construction organizations and their contribution to the project as a whole Drawing on mainstream organizational literature but putting it into the specific context of construction and containing many illustrations drawn from the industry this book will be required reading for all senior undergraduate and postgraduate students of construction as well as middle and senior management in the industry

Proceedings of the 24th International Symposium on Advancement of Construction Management and Real Estate Gui Ye, Hongping Yuan, Jian Zuo, 2021-06-07 This book covers various current and emerging topics in construction management and real estate Papers selected in this book cover a wide variety of topics such as new type urbanization planning and construction of smart city and eco city urban rural infrastructure development land use and development housing market and housing policy new theory and practice of construction project management big data application smart construction and BIM international

construction i e belt and road project green building off site prefabrication rural rejuvenation and eco civilization and other topics related to construction management and real estate These papers provide useful references to both scholars and practitioners This book is the documentation of The 24th International Symposium on Advancement of Construction Management and Real Estate which was held in Chongqing China

Secondary Research Methods in the Built Environment Emmanuel Manu, Julius Akotia, 2021-03-10 The use of secondary data for research can offer benefits particularly when limited resources are available for conducting research using primary methods Researchers and students at both undergraduate and postgraduate levels including their academic instructors are increasingly recognising the immense opportunities in applying secondary research methods in built environment research Advances in technology has also led to vast amounts of existing datasets that can be utilized for secondary research This textbook provides a systematic guide on how to apply secondary research methods in the built environment including their various underpinning methodologies It provides guidance on the secondary research process benefits and drawbacks of applying secondary research methods how to source for secondary data ethical considerations and the various secondary research methods that can be applied in built environment research The book incorporates chapters dealing with qualitative secondary analysis systematic literature reviews legal analysis bibliometric and scientometric analysis literature based discovery and meta analysis Secondary Research Methods in the Built Environment is an ideal research book for undergraduate and postgraduate students in construction management construction project management quantity surveying construction law and dispute resolution real estate and property management building services engineering architecture and civil engineering

Research Companion to Construction Economics Ofori, George, 2022-03-15 This innovative Research Companion considers the history nature and status of construction economics and its need for development as a field in order to be recognised as a distinct discipline It presents a state of the art review of construction economics identifying areas for further research

Sustainable Construction and Building Materials Sayed Hemeda, 2019-03-13 This book sheds light on recent advances in sustainable construction and building materials with special emphasis on the characterization of natural and composite hydraulic mortars advanced concrete technology green building materials and application of nanotechnology to the improvement of the design of building materials The book covers in detail the characterization of natural hydraulic lime mortars a decade of research on self healing concrete biocomposite cement binding process and performance development of sustainable building materials from agro industrial wastes applications of sugarcane biomass ash for developing sustainable construction materials oil contaminated sand sources properties remediation and engineering applications oil shale ash addition effect in concrete to freezing thawing connection node design and performance optimization of girders functionally graded concrete structures cumulative tensile damage and consolidation effects on fracture properties of sandstone key performance criteria influencing the selection of construction methods used for the

fabrication of building components in the Middle East fly ash as a resource material for the construction industry degradation monitoring systems for a building information modeling maintenance approach durability of composite modified asphalt mixtures based on inherent and improved performance and bitumen and its modifiers Research Methods for Construction Richard F. Fellows, Anita M. M. Liu, 2009-03-16 This is one of the few books to provide guidance on research formulation methodologies and methods specifically for construction students The third edition has been updated throughout and extended in scope to cover many areas of concern in quantitative and qualitative research including research ethics Three main sections producing a proposal executing the research and reporting the results discuss the key issues in research and examine the primary approaches both qualitative and quantitative The methods adopted for scientific and engineering experiments model building and simulations are discussed as well as those employed for research into management social and economic issues The authors examine the requirements for data and analysis including the important statistical considerations and a range of qualitative techniques that enable construction researchers to appreciate what needs to be evaluated in devising how research may be carried out effectively and efficiently Research Methods in Construction will help you instil rigour into your problem solving and your reports and publications It will be of value to construction surveying architecture and civil engineering students undertaking research whether for bachelors and masters degree dissertations or for masters and doctoral research degree theses **Research Methodology in the Built Environment** Vian Ahmed, Alex Opoku, Zeeshan Aziz, 2016-03-10 Built environment students are not always familiar with the range of different research approaches they could be using for their projects Whether you are undertaking a postgraduate doctoral programme or facing an undergraduate or masters dissertation this book provides general advice as well as 13 detailed case studies from 16 universities in 7 countries to help you get to grips with quantitative and qualitative methods mixed methods of data collection action research and more

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