

International Quantity Surveying Practices L

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Willis's Practice and Procedure for the Quantity Surveyor - Allan Ashworth 2023-08-28

WILLIS'S PRACTICE AND PROCEDURE FOR THE QUANTITY SURVEYOR The most up-to-date edition of the gold standard in introductory quantity surveying textbooks In the newly revised Fourteenth Edition of Willis's Practice and Procedure for the Quantity Surveyor, the authors provide a comprehensive and authoritative introduction to the core skills required by quantity surveyors. This latest edition is thoroughly updated to emphasize the use of information technology in construction, and contains new pedagogical features, new learning outcomes, and key learning points that relate the material specifically to the RICS Assessment of Professional Competence (APC). Historically employed to estimate and measure the likely material requirements for any building project, the role of the modern quantity surveyor is diverse and dynamic, with rapid change featuring across quantity surveying practice. The book echoes this dynamic environment, covering quantity surveying in private practice, public service, and in contracting organizations. Readers will also find: In-depth discussions of the use of IT in construction New and improved teaching and instruction features in the text, including new learning outcome sections and key learning points to highlight crucial concepts Tighter alignment with the requirements of the RICS Assessment of Professional Competence Perfect for undergraduate students studying quantity surveying, Willis's Practice and Procedure for the Quantity Surveyor, 14th Edition is also an indispensable resource for practicing surveyors and inspectors seeking a one-stop handbook to the foundational principles of quantity surveying.

Chronique de L'U.G.G.I. - International Union of Geodesy and Geophysics 1983

Improving Survey Methods - Uwe Engel 2014-09-18

This state-of-the-art volume provides insight into the recent developments in survey research. It covers topics like: survey modes and response effects, bio indicators and paradata, interviewer and survey error, mixed-mode panels, sensitive questions, conducting web surveys and access panels, coping with non-response, and handling missing data. The authors are leading scientists in the field, and discuss the latest methods and challenges with respect to these topics. Each of the book's eight parts starts with a brief chapter that provides an historical context along with an overview of today's most critical survey methods. Chapters in the sections focus on research applications in practice and discuss results from field studies. As such, the book will help researchers design surveys according to today's best practices. The book's website www.survey-methodology.de provides additional information, statistical analyses, tables and figures. An indispensable reference for practicing researchers and methodologists or any professional who uses surveys in their work, this book also serves as a supplement for graduate or upper level-undergraduate courses on survey methods taught in psychology, sociology, education, economics, and business. Although the book focuses on European findings, all of the research is discussed with

reference to the entire survey-methodology area, including the US. As such, the insights in this book will apply to surveys conducted around the world.

Project Management for the Built Environment - Low Sui Pheng 2017-10-27

This book presents the fundamentals of project management as applied in the built environment and more specifically for the construction industry. It presents the project management body of knowledge (PMBOK) using practical examples to show how various project management principles and concepts can be applied in practice. Providing study notes for students and aspiring project management professionals in the construction industry, each of the 13 chapters includes a set of comprehensive revision questions that allow readers to reflect on what they have learned. The book offers an introduction to what project management is all about as well as the project life cycles, stakeholders and organizations involved. It explains the project management processes and how these processes are applied in integration, scope, time, cost, quality, human resource, communications, risk and procurement management. It concludes with ethics and professional conduct in the project management profession.

Perspectives and Techniques for Improving Information Technology Project Management - Wang, John 2013-01-31

Perspectives and Techniques for Improving Information Technology Project Management discusses the variety of information systems and how it can improve project management and, likewise, how project management can affect the growth of information systems. Using new frameworks, technologies and methods, this comprehensive collection is useful for professionals, researchers and software developers interested in learning more on this emerging field.

A Maintenance Management Framework for Municipal Buildings in Developing Economies - Babatunde Fatai Ogunbayo 2023-02-03

The central aim of this book is to investigate and develop frameworks to aid effective maintenance management of municipal buildings in the education sector of developing economies. Using the South African education sector as a case study, this book provides readers with two major practical insights. Firstly, it focuses on the theoretical underpinnings of maintenance management research and introduces a maintenance management model through the development of a conceptual framework. This framework aids in explaining the factors underpinning the maintenance of municipal buildings but can also be used in the assessment and management of other public buildings. Secondly, the book highlights and addresses theoretical gaps in existing studies essential for the maintenance management of buildings in developing economies, providing a stimulus for future research. The book will be of interest to researchers in construction management, building technology, estate management, civil engineering, architecture, and urban and regional planning. It is an essential manual for policymakers in the education sector, built environment, construction industry, facility maintenance, facility management and consultants at government ministries, departments, and agencies (MDAs) charged with

maintenance management of public infrastructures and assets.

China - Anthony Walker 1998-10-01

The last twenty years have seen dramatic changes in China as the country has moved from a centrally controlled communist state to a socialist market economy. A major contribution to this process has been the development, design and construction of projects for foreign investment joint venture companies to provide the buildings and infrastructure needed for modernisation of the economy. The foreign investor will often require overseas designers, specialist contractors and suppliers to work in conjunction with local organisations on these projects. To operate effectively with the local industry, foreign organisations will have to develop an understanding of the background to the construction industry in China and familiarise themselves with the local construction process. This book aims to help foreign contributors to China's continuing economic development to gain a basic knowledge of these matters by presenting a broad picture of building in China and the system within which they will operate. More specifically, it looks at how a foreign party to a joint venture in China should go about the business of commissioning, designing and constructing their buildings.

BIM Development and Trends in Developing Countries: Case Studies - John Rogers, Heap-Yih Chong, Christopher Preece, Chai Chai Lim and Himal Suranga Jayasena 2015-03-06

Building Information Modeling (BIM), or the process of generating and managing digital information about physical representations of constructions, has been effectively adopted and benefited numerous civil engineering projects across the globe, particularly in developed countries. BIM Development and Trends in Developing Countries addresses the philosophies and practices for improved application of BIM in developing countries. Two case studies are presented in this reference: one from Malaysia and another representing Sri Lanka. Readers are given an introduction and background of the Malaysian and Sri Lankan construction industry and a critical review of BIM's philosophies, development and applications in different stages of a construction project. The authors present their recommendations on the way forward for BIM practices articulated from the two perspectives, namely, academia and industrial BIM practice. The case studies in this book highlight the role of adequate BIM software techniques and the importance of governmental support in facing building challenges at the moment. . BIM Development and Trends in Developing Countries provides readers useful insights on the evolution of BIM practice in emerging countries and is a unique report on two specific scenarios in BIM development. Engineers, architects, urban planners and policy makers around the globe seeking to understand practical BIM implementation and trends will find this reference invaluable.

Heritage Building Information Modelling for Implementing UNESCO Procedures - Ahmad Hamed Baik 2020-06-30

The main aim of this book is to develop and explore the value of new innovative digital content to help satisfy UNESCO's World Heritage nomination file requirements. Through a detailed exploration of two BIM case studies from Jeddah, Saudi Arabia, the book uniquely connects the use of Heritage BIM to the documentation methods used by UNESCO and demonstrates how this provides a contribution to both countries with heritage sites and UNESCO as an organisation. The research and practical examples in the book seek to address both the lack of a comprehensive method of submitting a nomination file to UNESCO and the lack of authentic engineering information in countries where extensive heritage sites exist. It looks at answering the following questions: How can Heritage Building Information Modelling (HBIM) be used

to better maintain, protect, and record the updated information of historical buildings? How can HBIM provide innovation in creating the missing information for the assignment of UNESCO's World Heritage status? What additional value can a sustainable update of HBIM data provide for such sites? How can HBIM improve the cultural value of heritage buildings in the short, medium, and long term, as well as provide a better future for historical buildings? This book will be useful reading for researchers and practitioners in the areas of heritage conservation, archaeology, World Heritage nomination, HBIM, digital technology and engineering, remote sensing, laser scanning, and architectural technology.

Towards a Sustainable Construction Industry: The Role of Innovation and Digitalisation - Clinton Aigbavboa 2023-04-23

This book gathers papers from the 12th Construction Industry Development Board (CIDB) Postgraduate Research Conference, which was held at the International Convention Centre, East London, Eastern Cape, South Africa, from July 10 to 12, 2022. The conference directly addresses the objectives of SDG9: "Building resilient infrastructure, promoting inclusive and sustainable industrialization and fostering innovation". Moreover, the conference is designed to promote capacity development and transformation within the built-environment space by providing an all-inclusive platform to established and emerging researchers to discuss the recent advancements needed to move the industry forward. **Willis's Practice and Procedure for the Quantity Surveyor** - Allan Ashworth 2013-04-08

Historically employed to estimate and measure the likely material requirements for any building project, the role of the modern quantity surveyor is diverse, with a wide range of employers and geographical locations to match. Change continues to be a feature in quantity surveying practice, with the New Rules of Measurement, the RICS Black Book and Building Information Modelling (BIM) all adding to the already dynamic environment in which the Quantity Surveyor operates. This new edition of Practice and Procedure for the Quantity Surveyor reflects that dynamic environment, addressing changing practices and procedures in the profession, whilst focussing on the core skills which are essential to success. The 13th edition of this classic text, originally written by three generations of the Willis family (all quantity surveyors) continues to provide a thorough introduction to the work of the quantity surveyor in private practice, in public service and in contracting organisations.

New Aspects of Quantity Surveying Practice - Duncan Cartlidge 2017-11-28

In this fourth edition of New Aspects of Quantity Surveying Practice, renowned quantity surveying author Duncan Cartlidge reviews the history of the quantity surveyor, examines and reflects on the state of current practice with a concentration on new and innovative practice, and attempts to predict the future direction of quantity surveying practice in the UK and worldwide. The book champions the adaptability and flexibility of the quantity surveyor, whilst covering the hot topics which have emerged since the previous edition's publication, including: the RICS 'Futures' publication; Building Information Modelling (BIM); mergers and acquisitions; a more informed and critical evaluation of the NRM; greater discussion of ethics to reflect on the renewed industry interest; and a new chapter on Dispute Resolution. As these issues create waves throughout the industry whilst it continues its global growth in emerging markets, such reflections on QS practice are now more important than ever. The book is essential reading for all Quantity Surveying students, teachers and professionals. It is particularly suited to undergraduate professional skills courses and non-

cognate postgraduate students looking for an up to date understanding of the industry and the role.

Psychology of Retention - Melinde Coetzee 2018-08-30

This book offers a contemporary review of talent retention from the viewpoint of human resource management and industrial/organisational psychology. With a practical and relevant perspective it enriches critical knowledge and insight in the psychology of talent retention. It offers interpretation of difficult factors facing organisations such as the conceptualisation of talent, the forecasting of talent demand and supply, external and internal factors that influence talent attraction, development and retention, the alignment between talent management and business strategy. Also covered is the implementation of human resource practices and strategies in response to the needs of different organisational contexts and workforce characteristics. The chapter contributions will not only enrich knowledge and insight in the complex phenomenon of talent retention, but also advance new original ways of thinking and researching this critically important area of inquiry. The book is intended for graduate students and researchers as an overview of the topic of talent retention, practitioners will also find it informative.

Construction Quantity Surveying - Donald Towey 2017-09-05

The revised and updated comprehensive resource for Quantity Surveyors working with a construction contractor The second edition of Construction Quantity Surveying offers a practical guide to quantity surveying from a main contractor's perspective. This indispensable resource covers measurement methodology (including samples using NRM2 as a guide), highlights the complex aspects of a contractor's business, reviews the commercial and contractual management of a construction project and provides detailed and practical information on running a project from commencement through to completion. Today's Quantity Surveyor (QS) plays an essential role in the management of construction projects, although the exact nature of the role depends on who employs the QS. The QS engaged by the client and the contractor's QS have different parts to play in any construction project, with the contractor's QS role extending beyond traditional measurement activities, to encompass day-to-day tasks of commercial building activities including estimating, contract administration, and construction planning, as well as cost and project management. This updated and practical guide: Focuses on the application, knowledge and training required of a modern Quantity Surveyor Clearly shows how Quantity Surveying plays an essential central role within the overall management of construction projects Covers measurement methodology, the key elements of the contractor's business and the commercial and contractual management of a construction project The construction industry changes at fast pace meaning the quantity surveyor has a key role to play in the successful execution of construction projects by providing essential commercial input. Construction Quantity Surveying meets this demand as an up-to-date practical guide that includes the information needed for a Quantity Surveyor to perform at the highest level. It clearly demonstrates that quantity surveying is not limited to quantifying trade works and shows it as an important aspect of commercial and project management of construction projects.

Advances in Building Information Modeling - Ozan Önder Özener 2022-09-22

This book constitutes the refereed proceedings of the Second Eurasian BIM Forum on Advances in Building Information Modeling, EBF 2021, held in Istanbul, Turkey, during November 11–12, 2021. The 12 full papers included in this book were carefully reviewed and selected from 22 submissions. They were organized in

topical sections as follows: BIM adoption and design process; BIM for project and facilities management; BIM education; and novel viewpoints on BIM.

Court-Connected Construction Mediation Practice - Andrew Agapiou 2016-11-10

The value of mediation has been widely acknowledged worldwide, as shown by the number of jurisdictions in which the courts enforce obligations on parties to negotiate and adopt mediation to settle construction disputes. This book examines the expansion and development of court-connected construction mediation provisions across a number of jurisdictions, including the England and Wales, the USA, South Africa and Hong Kong. It includes contributions from academics and professionals in six different countries to produce a truly international comparative study, which is of high importance to construction managers as well as legal professionals.

Value Management Implementation in Construction - Ayodeji E. Oke 2022-02-24

Value Management Implementation in Construction addresses various factors that can enhance the application of the discipline as well as its adoption among concerned stakeholders and discusses the practice of value management in various developed and developing countries.

New Aspects of Quantity Surveying Practice - Duncan P. Cartlidge 2006

The construction industry has been undergoing rapid change in the last decade since the publication of the Latham and Egan reports, and quantity surveying professionals have been at the forefront of those challenges. Changing attitudes to procurement and partnering, and the evolving role of clients, have put the QS profession at the heart of delivering major construction projects. Duncan Cartlidge assesses what has driven these changes, and what they mean for the profession and for the industry as a whole. He explains modern procurement methods, and assesses how much impact technology has had on construction management - and how much it might have in the future. The first edition of this visionary book set out the future for Quantity Surveying - now that prediction has become reality, *New Aspects of Quantity Surveying Practice* is an even more indispensable guide to the opportunities and challenges facing the profession in the 21st Century. Duncan Cartlidge FRICS is a procurement consultant and teaches at The Scott Sutherland School and is an online tutor for The College of Estate Management, Reading.

www.duncancartlidge.co.uk - Simple and clear assessment of the market for construction industry professionals - Guide to the latest procurement theory and practice - Assesses the impact of technology on the industry

IBEA Conference 2011 Proceedings: Innovation and Integration - Science, Technology and Policy in the Built Environment - Mahtab Akhavan Farshchi 2012

Translating research into practice - International Council for Building Research, Studies and Documentation. Congress 1986

Recent Trends in Social and Behaviour Sciences - Ford Lumban Gaol 2014-02-27

The human aspect plays an important role in the social sciences. The behaviour of people has become a vital area of focus in the social sciences as well. *Recent Trends in Social and Behaviour Sciences* contains papers that were originally presented at the International Congress on Interdisciplinary Behavior and Social Sciences, held 4-5 November 2011.

Design Economics for the Built Environment - Herbert Robinson 2015-03-27

The drive towards environmentally friendly buildings and infrastructure has led to a growing interest in providing design solutions underpinned by the core

principles of sustainability to balance economic, social and environmental factors. Design Economics for the Built Environment: Impact of sustainability on project evaluation presents new directions, reflecting the need to recognise the impact of climate change and the importance of sustainability in project evaluation. The aim is to provide a new approach to understanding design economics in the context of the changing policy environment, legislative and regulatory framework, and increasing economic, environmental and social pressure as result of the sustainability agenda. The book follows a structured approach from theories and principles in the earlier chapters, to the practical applications and emerging techniques focusing on value and social, economic and environmental considerations in making design decisions. It starts with the policy context, building on various theories and principles such as, capital cost, value of design and resource-based theories, the new rules of measurement (NRM) to explore cost planning, the relationship between height and costs, key socio-economic and environmental variables for design appraisal, eco-cost/value ratio (EVR), whole life theory and the treatment of carbon emission as external costs, productivity and efficiency, fiscal drivers and legal framework for carbon reduction, procurement and allocation of risks in contracts. Case studies, practical examples and frameworks throughout reinforce theories and principles and relate them to current practice. The book is essential reading for postgraduate students in architecture, building and quantity surveying and is also a valuable resource for academics, consultants and policy-makers in the built environment.

BIM Teaching and Learning Handbook - M. Reza Hosseini 2021-08-10

This book is the essential guide to the pedagogical and industry-inspired considerations that must shape how BIM is taught and learned. It will help academics and professional educators to develop programmes that meet the competences required by professional bodies and prepare both graduates and existing practitioners to advance the industry towards higher efficiency and quality. To date, systematic efforts to integrate pedagogical considerations into the way BIM is learned and taught remain non-existent. This book lays the foundation for forming a benchmark around which such an effort is made. It offers principles, best practices, and expected outcomes necessary to BIM curriculum and teaching development for construction-related programs across universities and professional training programmes. The aim of the book is to: Highlight BIM skill requirements, threshold concepts, and dimensions for practice; Showcase and introduce tried-and-tested practices and lessons learned in developing BIM-related curricula from leading educators; Recognise and introduce the baseline requirements for BIM education from a pedagogical perspective; Explore the challenges, as well as remedial solutions, pertaining to BIM education at tertiary education; Form a comprehensive point of reference, covering the essential concepts of BIM, for students; Promote and integrate pedagogical consideration into BIM education. This book is essential reading for anyone involved in BIM education, digital construction, architecture, and engineering, and for professionals looking for guidance on what the industry expects when it comes to BIM competency.

Value Management in Design and Construction - John Kelly 2003-09

This book looks at the transfer and further development of value management procedures, as practised in North America, in a United Kingdom and Commonwealth construction industry context.

Cost Studies of Buildings - Allan Ashworth 2015-07-16

This practical guide to cost studies of buildings has been updated and revised throughout for the 6th edition.

New developments in RICS New Rules of Measurement (NRM) are incorporated throughout the book, in addition to new material on e-business, the internet, social media, building information modelling, sustainability, building resilience and carbon estimating. This trusted and easy to use guide to the cost management role: Focuses on the importance of costs of constructing projects during the different phases of the construction process Features learning outcomes and self-assessment questions for each chapter Addresses the requirements of international readers From introductory data on the construction industry and the history of construction economics, to recommended methods for cost analysis and post-contract cost control, *Cost Studies of Buildings* is an ideal companion for anyone learning about cost management.

Survey Methods in Multinational, Multiregional, and Multicultural Contexts - Janet A. Harkness 2010-04-30

A unique collaboration featuring the latest methodologies and research on multi- and cross-national surveys Over the past two decades, the relevance of cross-national and cross-cultural methodologies has heightened across various fields of study. Responding to increasing cultural diversity and rapid changes in how research is conducted, *Survey Methods in Multinational, Multiregional, and Multicultural Contexts* addresses the need for refined tools and improved procedures in cross-cultural and cross-national studies worldwide. Based on research submitted to the International Conference on Multinational, Multicultural, and Multiregional Survey Methods (3MC), this book identifies important changes in comparative methodology approaches, outlines new findings, and provides insight into future developments in the field. Some of the world's leading survey researchers gather in this volume to address the need for a standard framework that promotes quality assurance and quality control in survey research, and its impact on various stages of the survey life cycle, including study design and organization, cross-national sampling, testing and pretesting, data collection, and input and output variable harmonization. Self-contained chapters feature coverage of various topics, such as: Question and questionnaire design, from both global and study-specific perspectives The construction and evaluation of survey translations and instrument adaptations The effects of cultural difference on the perception of question and response categories Non-response issues Analysis in comparative contexts, featuring discussion of polytomous item response theory, categorization problems, and Multi-Trait-Multi-Methods (MTMM) The significance of evolving methodologies for current international survey programs, including the European Social Survey, the International Social Survey Programme, and the Gallup World Poll *Survey Methods in Multinational, Multiregional, and Multicultural Contexts* is a valuable supplement for courses on comparative survey methods at the upper-undergraduate and graduate levels. It also serves as an insightful reference for professionals who design, implement, and analyze comparative research in the areas of business, public health, and the social and behavioral sciences.

The Construction Industry in the Fourth Industrial Revolution - Clinton Aigbavboa 2019-08-09

This book gathers papers from the 11th Construction Industry Development Board (cidb) Postgraduate Research Conference, held on 28–30 July 2019 in Johannesburg, South Africa. The conference provided an essential forum for reviewing and generating knowledge on Construction 4.0 and, consequently, highlighted processes and practices that allow us to deliver and operate built environment assets more effectively and efficiently by focusing on physical-to-digital and digital-to-physical transformation. The event addressed three broad themes: Industrial production (prefabrication, 3-D printing and assembly, offsite and advanced manufacturing); Cyber-physical systems (actuators, sensors, IoT, robots and

cobots for repetitive and dangerous tasks, and drones for mapping, progress monitoring, safety and quality inspections, lifting, moving and positioning); and Technologies (digital ecosystems, digital platforms, BIM, video and laser scanning, AI and cloud computing, big data and data analytics, reality capture, blockchain, simulation, virtual and augmented reality, data standards and interoperability, and vertical and horizontal integration). Given its scope, the book will be of interest to all construction industry and architectural professionals who want to learn about cutting-edge technologies applied to construction

New Aspects of Quantity Surveying Practice - Duncan Cartlidge 2017-11-28

In this fourth edition of *New Aspects of Quantity Surveying Practice*, renowned quantity surveying author Duncan Cartlidge reviews the history of the quantity surveyor, examines and reflects on the state of current practice with a concentration on new and innovative practice, and attempts to predict the future direction of quantity surveying practice in the UK and worldwide. The book champions the adaptability and flexibility of the quantity surveyor, whilst covering the hot topics which have emerged since the previous edition's publication, including: the RICS 'Futures' publication; Building Information Modelling (BIM); mergers and acquisitions; a more informed and critical evaluation of the NRM; greater discussion of ethics to reflect on the renewed industry interest; and a new chapter on Dispute Resolution. As these issues create waves throughout the industry whilst it continues its global growth in emerging markets, such reflections on QS practice are now more important than ever. The book is essential reading for all Quantity Surveying students, teachers and professionals. It is particularly suited to undergraduate professional skills courses and non-cognate postgraduate students looking for an up to date understanding of the industry and the role.

DSS 2.0 - Supporting Decision Making With New Technologies - G.E. Phillips-Wren 2014-05-22

Advances in technology have resulted in new and advanced methods to support decision-making. For example, artificial intelligence has enabled people to make better decisions through the use of Intelligent Decision Support Systems (DSS). Emerging research in DSS demonstrates that decision makers can operate in a more timely manner using real-time data, more accurately due to data mining and 'big data' methods, more strategically by considering a greater number of factors, more precisely and inclusively due to the availability of social networking data, and with a wider media reach with video and audio technology.

This book presents the proceedings of the IFIP TC8/Working Group 8.3 conference held at the Université Pierre et Marie Curie in Paris, France, in June 2014. Throughout its history the conference has aimed to present the latest innovations and achievements in Decision Support Systems. This year the conference looks to the next generation with the theme of new technologies to enable DSS2.0. The topics covered include theoretical, empirical and design science research; case-based approaches in decision support systems; decision models in the real-world; healthcare information technology; decision making theory; knowledge management; knowledge and resource discovery; business intelligence; group decision support systems; collaborative decision making; analytics and 'big data'; rich language for decision support; multimedia tools for DSS; Web 2.0 systems in decision support; context-based technologies for decision making; intelligent systems and technologies in decision support; organizational decision support; research methods in DSS 2.0; mobile DSS; competing on analytics; and social media analytics.

The book will be of interest to all those who develop or use Decision Support

Systems. The variety of methods and applications illustrated by this international group of carefully reviewed papers should provide ideas and directions for future researchers and practitioners alike.

Research Companion to Building Information Modeling - Lu, Weisheng 2022-03-22

Offering critical insights to the state-of-the-art in Building Information Modeling (BIM) research and development, this book outlines the prospects and challenges for the field in this era of digital revolution. Analysing the contributions of BIM across the construction industry, it provides a comprehensive survey of global BIM practices.

The United States Catalog - 1903

Information and Knowledge Management in Complex Systems - Kecheng Liu 2015-03-16

This book constitutes the refereed proceedings of the 16th IFIP WG 8.1 International Conference on Informatics and Semiotics in Organisations, ICISO 2015, held in Toulouse, France, in March 2015. The 21 revised papers presented were carefully reviewed and selected from 46 submissions. The papers are organized in the following topical sections: organisational semiotics: theory and concepts; organisational semiotics and applications; information systems and services; complex system modeling and simulation; and innovation and organisational learning.

Transport Survey Methods - Johanna Zmud 2013-01-29

Compiles the critical thinking on priority topics in contemporary transport policy and planning contexts. In this title, the contributed papers cover two key themes related to types of decision-making of importance to the development of data collection on both passenger travel and freight movements.

Handbook of Mixed Methods in Social & Behavioral Research - Abbas Tashakkori 2003

The Handbook contains a gold mine of articles by leading scholars on what has come to be known as the third methodological movement in social research. Aimed at surveying the differing viewpoints and disciplinary approaches of mixed methods, this breakthrough book examines mixed methods from the research enterprise to paradigmatic issues to application. The book also discusses the strengths and weaknesses of mixed methods designs, and provides an array of specific examples in a variety of disciplines, from psychology to nursing. The book closes with a brief section on how to teach and perform collaborative research using a mixed methods research design. Written so that it can be used either as a pedagogical tool or as a reference for researchers, the book is rich in examples and includes a glossary, easy-to-follow diagrams, and tables to help readers become more familiar with the language and controversies in this evolving area.

BIM and Big Data for Construction Cost Management - Weisheng Lu 2018-10-11

This book is designed to help practitioners and students in a wide range of construction project management professions to understand what building information modelling (BIM) and big data could mean for them and how they should prepare to work successfully on BIM-compliant projects and maintain their competencies in this essential and expanding area. In this book, the state-of-the-art information technologies that support high-profile BIM implementation are introduced, and case studies show how BIM has integrated core quantity surveying and cost management responsibilities and how big data can enable informed decision-making for cost control and cost planning. The authors' combined professional and academic experience demonstrates, with practical examples, the importance of using BIM and particularly the fusion of BIM and big data, to sharpen competitiveness in global and domestic markets. This book is a highly valuable guide for people in a wide

range of construction project management and quantity surveying roles. In addition, implications for project management, facilities management, contract administration, and dispute resolution are also explored through the case studies, making this book essential reading for built environment and engineering professionals.

Sustainable Construction in the Era of the Fourth Industrial Revolution - Ayodeji Emmanuel Oke 2021-09-05

This book provides readers with an understanding of various concepts, benefits, and practices that the adoption of Fourth Industrial Revolution (4IR) technologies can bring when working towards sustainable construction goals. As digitalization continues to advance rapidly, the pressures on stakeholders in the architecture, engineering, construction, and operation (AECO) industry to revamp and restructure their activities and outputs become increasingly prevalent. This research book explains the importance of various digital tools and principles to achieve sustainable construction projects. It adopts various standards and concepts to highlight how 4IR technologies could assist and accelerate construction sustainability. It is the first book to link construction management with various digital tools to enhance construction projects' sustainability. It also provides an in-depth insight into the concept of sustainable construction 4.0 across both developing and developed countries for construction professionals, sustainability experts, researchers, educators, and other stakeholders. The book can be adopted as a research guide, framework, and reference on sustainable construction, the concept of sustainable projects, digitalization in the construction industry, and the 4IR.

Project Procurement for Infrastructure Construction - Satyanarayana N. Kaladindi 2004

Contributed papers presented at a symposium held by International Council for Research and Innovation in Building and Construction.

Public Sector Transformation Processes and Internet Public Procurement: Decision Support Systems - Pomazalová, Natasa 2012-12-31

While many social, economic, and political changes have occurred recently in internet public procurement and its decision support systems, there is still a lot of opportunity for improvement. Public Sector Transformation Processes and Internet Public Procurement: Decision Support Systems brings together research on different perspectives from academics and practitioners on the methods, theories, and practices involved in the growth and expansion of decision support systems as it relates to the public sector transformation process and internet public procurement.

Sustainable Buildings and Structures: Building a Sustainable Tomorrow - Konstantinos Papadikis 2019-09-26

Sustainable Buildings and Structures: Building a Sustainable Tomorrow collects the contributions presented at the 2nd International Conference on Sustainable Buildings and Structures (Suzhou, China, 25-27 October 2019). The papers aim at sharing the state-of-the-art on sustainable approaches to engineering design and construction, and cover a wide range of topics: Sustainable Construction Materials Sustainable Design in Built Environment Green and Low Carbon Buildings Smart Construction and Construction Management Sustainable Buildings and Structures: Building a Sustainable Tomorrow will be of interest to academics, professionals, industry representatives and

local government officials involved in civil engineering, architecture, urban planning, structural engineering, construction management and other related fields.

Value Management of Construction Projects - John Kelly 2014-11-17

Value Management is a philosophy, set of principles and a structured management methodology for improving organisational decision-making and value-for-money. The second edition builds on the success of the first edition by extending the integrated value philosophy, methodology and tool kit to describe the application of Value Management to the areas of service delivery, asset management, and Programmes, in addition to Projects, products and processes. Value Management is a well-established methodology in the international construction industry, and in the UK has been endorsed as good practice in a range of government sponsored reports. In this book the authors have addressed the practical opportunities and difficulties of Value Management by synthesising the background, international developments, benchmarking and their own extensive consultancy and action research experience in Value Management to provide a comprehensive package of theory and practice. The second edition retains the structure of the first edition, covering methods and practices, frameworks of value and the future of value management. It has been thoroughly updated, and a number of new chapters added to encapsulate further extensions to current theory and practice. In particular, the new edition responds to: A range of recent UK industry and government publications; and most notably BS EN 16271:2012 - Value management: Functional expression of the need and functional performance specification; the imminent update of BS EN 12973:2000 Value Management; BS EN 1325 Value Management -- Vocabulary, Terms and definitions; the changes to "Value for Europe" governing the training and certification of Value Management in European Union countries; the UK Government's Management of Value (MoV) initiative, together with other leading reports, international guidance and standards on Value Management. Research in Value Management undertaken since publication of the first edition. Changes in Value Management practice particularly in Programmes and Projects. Developments in the theory of value, principally value for money measures, whole life value option appraisal, and benefits realisation. Initiatives in asset management initiatives covering the management of physical infrastructure, for example the recent launch of a suite of three standards under the generic title of BS ISO 55000: 2014 Asset Management, and its predecessor BSI PAS55 2008 "Asset Management: Specification For The Optimized Management Of Physical Assets" The second edition contains a dedicated chapter of exemplar case studies drawn from the authors' experience, selected to demonstrate the new areas of theory and practice. An Appendix includes an extensive set of tools and techniques of use in Value Management practice. Construction clients, including those in both the public and private sectors, and professionals such as construction cost consultants, quantity surveyors, architects, asset managers, construction engineers, and construction managers will all find Value Management of Construction Projects to be essential reading. It will also be of interest to researchers and students on construction related courses in Higher Education -- particularly those at final year undergraduate and at Masters level.