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**KEY=IN - LESTER SCHULTZ**

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## Collaboration and Integration in Construction, Engineering, Management and Technology Proceedings of the 11th International Conference on Construction in the 21st Century, London 2019

*Springer Nature* This book gathers papers presented at the 11th International Conference on Construction in the 21st Century, held in London in 2019. Bringing together a diverse group of government agencies, academics, professionals, and students, the book addresses issues related to construction safety, innovative technologies, lean and sustainable construction, international construction, improving quality and productivity, and innovative materials in the construction industry. In addition, it highlights international collaborations between various disciplines in the areas of construction, engineering, management, and technology. The book demonstrates that, as the industry moves forward in an ever-complex global economy, multi-national collaboration is crucial, and its future growth will undoubtedly depend on international teamwork and alliances.

## Designs, Methods and Practices for Research of Project Management

*Routledge* Project management as a discipline has experienced near-exponential growth in its application across the business and not-for-profit sectors. This original, authoritative guide provides both practitioner and student researchers with a complete guide to research practice on project management. In *Designs, Methods and Practices for Research of Project Management*, Beverly Pasion has brought together original chapters from a veritable who's who of project management research including authors such as Harvey Maylor, Christophe Bredillet, Derek Walker, Miles Shepherd, Janice Thomas, Naomi Brookes and Darren Dalcher. The collection looks at research strategy, management, methodology, techniques as well as emerging topics such as social network analysis. The 38 chapters offer an international perspective with examples from a wide range of project management applications; engineering, construction, mega-projects, high-risk environments and social transformation. Each chapter includes tips and exercises for the research student, as well as a complete set of further references.

## Contaminated Land Management

## Ready Reference

*EPP Publications*

## Construction Manager-at-risk Project Delivery for Highway Programs

*Transportation Research Board* TRB's National Cooperative Highway Research Program (NCHRP) Synthesis 402: *Construction Manager-at-Risk Project Delivery for Highway Programs* explores current methods in which state departments of transportation and other public engineering agencies are applying construction manager-at-risk (CMR) project delivery to their construction projects. CMR project delivery is an integrated team approach to the planning, design, and construction of a highway project, to help control schedule and budget, and to help ensure quality for the project owner. The team consists of the owner; the designer, who might be an in-house engineer; and the at-risk construction manager. The goal of this project delivery method is to engage at-risk construction expertise early in the design process to enhance constructability, manage risk, and facilitate concurrent execution of design and construction without the owner relinquishing control over the details of design as it would in a design-build project.

# Digital Transformation of the Design, Construction and Management Processes of the Built Environment

*Springer Nature* This open access book focuses on the development of methods, interoperable and integrated ICT tools, and survey techniques for optimal management of the building process. The construction sector is facing an increasing demand for major innovations in terms of digital dematerialization and technologies such as the Internet of Things, big data, advanced manufacturing, robotics, 3D printing, blockchain technologies and artificial intelligence. The demand for simplification and transparency in information management and for the rationalization and optimization of very fragmented and splintered processes is a key driver for digitization. The book describes the contribution of the ABC Department of the Polytechnic University of Milan (Politecnico di Milano) to R&D activities regarding methods and ICT tools for the interoperable management of the different phases of the building process, including design, construction, and management. Informative case studies complement the theoretical discussion. The book will be of interest to all stakeholders in the building process - owners, designers, constructors, and facility managers - as well as the research sector.

## Construction Management JumpStart

### The Best First Step Toward a Career in Construction Management

*John Wiley & Sons* The bestselling introduction to the field, updated and expanded Construction Management Jumpstart is the definitive introduction to the field, providing a detailed walkthrough of each stage of a project from the construction manager's perspective. Authoritative coverage of fundamental concepts and practices clearly delineates the manager's role, while step-by-step guidance provides valuable instruction for essential management duties. This new third edition has been updated to reflect the field's current environment and best practices, giving students a highly-relevant introduction to an evolving industry. Three new chapters include insightful discussion of the pre-construction phase, team management, and sustainability; challenging chapter review questions help reinforce important concepts and help translate them to practice. Construction managers work alongside project managers, and use many of the same tried-and-true techniques—but construction managers must also adhere to a vast array of industry-specific standards and regulations. This book helps you build a foundation in critical concepts and practices while tailoring traditional project management techniques to the construction management sphere. Understand essential management roles and responsibilities for each stage of a construction project Learn how to estimate costs, administer contracts, manage operations, monitor performance, assess risks, and more Explore critical concepts in planning and scheduling that help keep projects running on-time and on-budget Discover how Building Information Modeling software is impacting the industry, and how it affects construction management Evolving regulations, advancing technology, and economies in flux all impact the construction industry in a number of ways; management's job is to clear obstacles to delivery and streamline the project's completion. To be effective, construction managers must stay up to date on the latest tools and best practices, and have a strong grasp of the fundamentals of the role. Construction Management Jumpstart provides a practical, highly-relevant introduction to the field.

## Research Companion to Building Information Modeling

*Edward Elgar Publishing* 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.

## eWork and eBusiness in Architecture, Engineering and Construction

### ECPPM 2014

*CRC Press* In the last two decades, the biannual ECPPM (European Conference on Product and Process Modelling) conference series has provided a unique platform for the presentation and discussion of the most recent advances with regard to the ICT (Information and Communication Technology) applications in the AEC/FM (Architecture, Engineering, Construction and Facilities Management) domains. ECPPM 2014, the 10th European Conference on Product and Process Modelling, was hosted by the Department of Building Physics and Building Ecology of the Vienna University of Technology, Austria (17-19 September 2014). This book entails a substantial number of high-quality contributions that cover a large spectrum of topics pertaining to ICT deployment instances in AEC/FM, including: - BIM (Building Information Modelling) - ICT in Civil engineering & Infrastructure - Human requirements & factors - Computational decision support - Commissioning, monitoring & occupancy - Energy & management - Ontology, data models, and IFC (Industry Foundation Classes) - Energy modelling - Thermal performance simulation - Sustainable buildings - Micro climate modelling - Model calibration - Project & construction management - Data & information management As such, eWork and eBusiness in Architecture, Engineering and Construction 2014 represents a rich and comprehensive resource for academics and professionals working in the interdisciplinary areas of information technology applications in architecture, engineering, and construction.

# A Guidebook for Selecting Airport Capital Project Delivery Methods

*Transportation Research Board* describes various project delivery methods for major airport capital projects. The guidebook also evaluates the impacts, advantages, and disadvantages of these various project delivery methods. The project delivery methods discussed include design-bid-build (DBB), construction manager at risk (CMR), and design-build (DB). The guidebook offers a two-tiered project delivery selection framework that may be used by owners of airport projects to evaluate the pros and cons of each delivery method and select the most appropriate method for their project. Tier 1 is an analytical delivery decision approach that is designed to help the user understand the attributes of each project delivery method and whether the delivery method is appropriate for their specific circumstance. Tier 2 uses a weighted-matrix delivery decision approach that allows users to prioritize their objectives and, based on the prioritized objectives, select the delivery method that is best suited for their project. The report will be helpful to airports with determining the most appropriate project delivery methods (e.g., DBB, DB, or CMR) for various types of airport capital projects.

# Computer-Based Construction Project Management Pearson New International Edition

*Pearson Higher Ed* For senior-level courses in Construction Project Management, and undergraduate/graduate-level courses in Computer-Aided Construction Management. This text views basic project management concepts from an information technology perspective. It contains comprehensive coverage of quantitative construction management techniques for planning, scheduling, estimating, cost optimization, cash flow analysis, bidding, and project control. All concepts are presented both manually and on computer applications, with a single case study to clearly demonstrate the evolution of concepts in the successive chapters.

# Looking to methods and tools for the Research in Design and Architectural Technology

*Firenze University Press* The volume presents the research experience of young researchers and PhD candidates, dealing with the Italian scientific area 08-C1 (Design and Technology of Architecture), with a discussion about scientific issues and methodologies applied. The aim is to express the methodological and investigation features of the issues faced by the researchers, along with the effectiveness of their researches design, giving the reader an immediate overview of the 08-C1 doctoral experience. Beside young researchers statements as witnesses of this research path, the volume collects professors critical contribution, to enrich the comprehensive picture of the progression and methodologies of the doctoral researches presented.

# Campus Recreational Sports Facilities

## Planning, Design, and Construction Guidelines

*Human Kinetics* "Campus Recreational Sports Facilities" covers the entire process of building a facility, from initial planning through design, construction, and move-in. Recreational sport directors, architects, and other experts provide construction options and share industry standards, guidelines, procedures, and more to help you navigate this complex process.

# Techniques for Effective Highway Construction Projects in Congested Urban Areas

*Transportation Research Board* TRB's National Cooperative Highway Research Program (NCHRP) Synthesis 413: Techniques for Effective Highway Construction Projects in Congested Urban Areas explores a diverse set of techniques designed to address highway construction challenges in congested urban areas such as high-traffic volumes, utility conflicts, complex right-of-way acquisition issues, a diverse stakeholder base, and watchful news media. The report includes four case studies designed to help illustrate effective construction practices in congested urban areas.

# Advances in Informatics and Computing in Civil and Construction Engineering

# Proceedings of the 35th CIB W78 2018 Conference: IT in Design, Construction, and Management

*Springer* This proceedings volume chronicles the papers presented at the 35th CIB W78 2018 Conference: IT in Design, Construction, and Management, held in Chicago, IL, USA, in October 2018. The theme of the conference focused on fostering, encouraging, and promoting research and development in the application of integrated information technology (IT) throughout the life-cycle of the design, construction, and occupancy of buildings and related facilities. The CIB – International Council for Research and Innovation in Building Construction – was established in 1953 as an association whose objectives were to stimulate and facilitate international cooperation and information exchange between governmental research institutes in the building and construction sector, with an emphasis on those institutes engaged in technical fields of research. The conference brought together more than 200 scholars from 40 countries, who presented the innovative concepts and methods featured in this collection of papers.

## The Architect's Handbook of Professional Practice

*John Wiley & Sons* "This updated resource covers all aspects of architectural practice, featuring: new material of sustainable design, managing multiple offices, lifelong learning, mentoring, and team building; revised content on programming, project management, construction contract administration, risk management, and ethics; and coverage of small firm considerations as well as emerging issues such as integrated practice and integrated project delivery."--Jacket.

## Introduction to Built Asset Management

*John Wiley & Sons* Introduction to Built Asset Management Provides a multidisciplinary introduction to building maintenance management and execution, covering a wide range of current technical and management issues. The maintenance and upgrading of existing buildings is no longer viewed as separate from the operational phase of the completed building. Maintenance and management are now regarded as fundamental parts of a building's life cycle, forming a significant percentage of the construction industry's total output. As higher education programmes in the UK and elsewhere continue to place greater emphasis on the longer-term view of construction projects, students and instructors require a thorough and up-to-date textbook that emphasises the comprehensive nature of building maintenance. Introduction to Built Asset Management is a systematic introduction to both the technology and management issues central to building maintenance and refurbishment. Covering the entire life cycle of built assets, the textbook reviews the role of framework agreements, describes key performance indicators, discusses recent advancements in the procurement of maintenance activities and more. Detailed yet accessible chapters include illustrative examples, seminar questions and self-assessment tasks that enable students to measure their progress as they work through the material. Designed to meet the needs of today's learners, this much-needed textbook: Addresses a variety of both environmental and commercial concerns Evaluates important concepts of sustainability, sustainable maintenance and carbon resilience Discusses the growing retrofit market in the wider context of asset management and maintenance Describes information management tools such as building information modelling (BIM) and geographic information systems (GIS) Introduction to Built Asset Management is ideally suited for courses in construction, construction management, building surveying and facilities management with modules in built asset management and maintenance.

## Commercial Management

### Theory and Practice

*John Wiley & Sons* Commercial Management: theory and practice defines the role of commercial management within project-oriented organisations, providing a framework for and helping to develop a critical understanding of the factors that influence commercial management practice. It also identifies generic aspects of this practice and provides a theoretical foundation to these activities, by reference to existing and emergent theories and concepts, as well as to relevant management best practice. The book is structured into four parts: Part 1 Introduction – Commercial Management in Project Environments explores the nature of commercial practice within project-oriented organisations at the buyer-seller interface. It presents a Commercial Management framework, which illustrates the multiple interactions and connections between the purchaser's procurement cycle and a supplier's bidding and implementation cycles. Additionally, it outlines the principle activities undertaken by the commercial function, identifies the skills and abilities that support these activities and reviews the theories and concepts that underpin commercial practice. Finally, it identifies areas of commonality of practice with other functions found within project-oriented organisations, plus sources of potential conflict and misunderstanding. Part 2 – Elements of Commercial Theory and Practice covers commercial leadership; exploring strategy; risk and uncertainty management; financial decision-making; and key legal issues. Part 3 – Approaches to Commercial Practice addresses best practice management; and commercial and contracting strategies and tactics. Finally, Part 4 – Case Studies offers two extended case studies: Football Stadia (the Millennium Stadium, Cardiff; the Emirates Stadium, Islington; and Wembley Stadium, London); and Heathrow Terminal 5. The book provides a one-stop-shop to the many topics that underpin commercial management practice from both a demand (buy-side) and a supply (sell-side) perspective. It will help develop an understanding of the issues influencing commercial management: leadership, strategy, risk, financial, legal, best practice management and commercial and contracting strategy and tactics. This book's companion website is at [www.wiley.com/go/lowecommercialmanagement](http://www.wiley.com/go/lowecommercialmanagement) and offers invaluable resources for both students and lecturers: • PowerPoint slides for lecturers on each chapter • Sample exam questions for students to practice • Weblinks to key journals and relevant professional bodies

# Proceedings of the 23rd International Symposium on Advancement of Construction Management and Real Estate

*Springer Nature* This book presents the proceedings of CRIOCM2018, 23rd International Symposium on Advancement of Construction Management and Real Estate, 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) working in close collaboration with Guizhou Institute of Technology (GIT). 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-type urbanization, land development and land use, urban planning and infrastructure construction, housing market and housing policy, real estate finance and investment, new theories and practices on construction project management, smart city, BIM technologies and applications, construction management in big data era, green architecture and eco-city, rural rejuvenation and eco-civilization, other topics related to construction management and real estate, the discussions provide valuable insights into the advancement of construction management and real estate in the new era. The book is an outstanding reference resource for academics and professionals alike.

## Managing Health and Safety in Construction

## Construction (Design and Management) Regulations 2015. Guidance on Regulations

## Project Management for Construction

## Fundamental Concepts for Owners, Engineers, Architects, and Builders

*Chris Hendrickson*

## Application of the BIM Method in Sustainable Construction

## Status Quo of Potential Applications in Practice

*Springer Nature* The integration of sustainability requires a paradigm shift in the lifecycle of buildings. By using the BIM method, aspects of sustainable construction can be increasingly integrated into processes and workflows. Information is captured consistently and in a structured way across the lifecycle and made available to all stakeholders. This Essential presents the current status quo of possible applications of the BIM method in sustainable construction. The aim is to promote a fusion of BIM and sustainability by highlighting essential requirements for BIM processes and models, workflows and their added value.

## Lean Design Management

The fields of design management and lean construction appear to be developing independently. This volume brings together authors from four continents to argue that lean thinking should be integral to design management in the fields of architecture, engineering and construction (AEC). The publication brings together a variety of perspectives on lean design management as experienced in Africa, South America, Australasia and Europe. Themes covered include: lean thinking and flexible building solutions quality and flow of information in fourteen sub-projects of a major airport project Ghanaian consultants' perspective on process waste target costing and its application to social housing projects in Brazil concept of 'first' and 'last' value, drawing on social housing projects in Chile development of a lean design management model specifically for remote sites. The papers offer a mix of theoretical materials and empirical research findings, providing a unique insight into aspects of lean design management. This book was published as a special issue of *Architectural Engineering and Design Management*.

## Construction Site Coordination and Management Guide

*Momentum Press* This book provides construction practitioners with the knowledge they need to successfully coordinate and manage construction projects. Coordination and management are essential functions in the building procedure. Recent research has

demonstrated that poor or inadequate coordination is the best that is accomplished on construction sites. Nevertheless, not many writers of construction project management have examined this essential subject. Between project goals and the reality on the ground exist a huge number of conditions that can affect the progress of a project and that is the reason a dynamic ramification amid the development time frame is significant. This book provides construction practitioners with the knowledge they need to successfully coordinate and manage construction projects. It highlights different construction processes required to enhance their practical performance in particular and further the construction industry in general.

## Infrastructure and Technology Management Contributions from the Energy, Healthcare and Transportation Sectors

*Springer* This book presents emerging technology management approaches and applied cases from leading infrastructure sectors such as energy, healthcare, transportation and education. Featuring timely topics such as fracking technology, electric cars, Google's eco-friendly mobile technology and Amazon Prime Air, the volume's contributions explore the current management challenges that have resulted from the development of new technologies, and present tools, applications and frameworks that can be utilized to overcome these challenges. Emerging technologies make us rethink how our infrastructure will look in the future. Solar and wind generation, for example, have already changed the dynamics of the power sector. While they have helped to reduce the use of fossil fuels, they have created management complications due to their intermittent natures. Meanwhile, information technologies have changed how we manage healthcare, making it safer and more accessible, but not without implications for cost and administration. Autonomous cars are around the corner. On-line education is no longer a myth but still a largely unfulfilled opportunity. Digitization of car ownership is achievable thanks to emerging business models leveraging new communication technologies. The major challenge is how to evaluate the relative costs and benefits of these technologies. This book offers insights from both researchers and industry practitioners to address this challenge and anticipate the impact of new technologies on infrastructure now and in the future.

## Innovative Management Techniques for Architectural Design and Construction

*Olympic Marketing Corporation*

## Automation Based Creative Design - Research and Perspectives

*Newnes* Computer technology has revolutionized many aspects of building design, such as drafting, management, construction - even building with robots. This revolution has expanded into the field of design creativity. Presented in this book is an up-to-date, comprehensive picture of research advances in the fast-growing field of informatics applied to conceptual stages in the generation of artifacts - in particular, buildings. It addresses the question how far and in what ways creative design can be intelligently automated. Among the topics covered are: the use of precedents; the relations between case-based, rule-based, and principle-based architectural design reasoning; product typology; artifact thesauruses; the inputting and retrieval of architectural knowledge; the visual representation and understanding of existing or projected built forms; empirical and analytical models of the design process and the design product; desktop design toolkits; grammars of shape and of function; multiple-perspective building data structures; design as a multi-agent collaborative process; the integration of heterogeneous engineering information; and foundations for a systematic approach to the development of knowledge-based design systems. The papers provide a link between basic and practical issues: - fundamental questions in the theory of artifact design, artificial intelligence, and the cognitive science of imagination and reasoning; - problems in the computerization of building data and design facilities; - the practical tasks of building conception, construction and evaluation. The automation of creative design is itself considered as an engineering design problem. The implications of current and future work for architectural education and research in architectural history, as well as for computer-integrated construction and the management of engineering projects are considered.

## Adobe® Acrobat® and PDF for Architecture, Engineering, and Construction

*Springer Science & Business Media* Applied Acrobat for Engineers is the first and only book to be written specifically to give engineers the skills that they need to use pdfs and Adobe Acrobat in engineering applications. Teaches the use of PDF in communication and archiving of complex documents with a specific slant towards various engineering disciplines and the related areas of architecture and construction management Better document control reduces project review and approval times Uses the progressive treatment of a sample project, throughout the book, to explain and illustrate the application of Acrobat techniques Encourages easier interaction with clients and regulatory agencies by employing a completely searchable document format which is available to all

# Bridge Engineering Handbook Construction and Maintenance

*CRC Press* Over 140 experts, 14 countries, and 89 chapters are represented in the second edition of the Bridge Engineering Handbook. This extensive collection highlights bridge engineering specimens from around the world, contains detailed information on bridge engineering, and thoroughly explains the concepts and practical applications surrounding the subject.

## New Code of Estimating Practice

*John Wiley & Sons* This code of practice, long established as a leading publication for the construction industry, provides an authoritative guide to essential principles and good practice in estimating for construction work. The eighth edition has been completely rewritten to include much more educational and contextual material as well as the code of practice.

## Strategic Safety Management in Construction and Engineering

*John Wiley & Sons* Although the construction and engineering sector makes important contributions to the economic, social, and environmental objectives of a nation, it has a notorious reputation for being an unsafe industry in which to work. Despite the fact that safety performance in the industry has improved, injuries and fatalities still occur frequently. To address this, the industry needs to evolve further by integrating safety into all decision making processes. Strategic Safety Management in Construction and Engineering takes a broad view of safety from a strategic decision making and management perspective with a particular focus on the need to balance and integrate 'science' and 'art' when implementing safety management. The principles covered here include the economics of safety, safety climate and culture, skills for safety, safety training and learning, safety in design, risk management, building information modelling, and safety research methods and the research-practice nexus. They are integrated into a strategic safety management framework which comprises strategy development, implementation, and evaluation. Practical techniques are included to apply the principles in the context of the construction and engineering industry and projects. Case studies are also provided to demonstrate the localised context and applications of the principles and techniques in practice.

## Contemporary Approaches in Urbanism and Heritage Studies

*Cinius Yayınları* This book is an intellectual discourse and a concise compendium of current research in Architecture and Urbanism. Primarily, it is a book of readings of 24 chapters. The book brings together theories, manifestos and methodologies on contemporary architecture and urbanism to raise the understanding for the future of architecture and urban planning. Overall, the book aimed to establish a bridge between theory and practice in the built environment. Thus, it reports on the latest research findings and innovative approaches, methodologies for creating, assessing, and understanding of contemporary built environment.

## Advanced Methodologies and Technologies in Business Operations and Management

*IGI Global* Businesses consistently work on new projects, products, and workflows to remain competitive and successful in the modern business environment. To remain zealous, businesses must employ the most effective methods and tools in human resources, project management, and overall business plan execution as competitors work to succeed as well. Advanced Methodologies and Technologies in Business Operations and Management provides emerging research on business tools such as employee engagement, payout policies, and financial investing to promote operational success. While highlighting the challenges facing modern organizations, readers will learn how corporate social responsibility and utilizing artificial intelligence improve a company's culture and management. This book is an ideal resource for executives and managers, researchers, accountants, and financial investors seeking current research on business operations and management.

## Resilient and Responsible Smart Cities

### Volume 1

*Springer Nature* This book focuses on the ways in which resiliency can foster the transformation of cities. There is a growing need for our cities to be transformed into "smart" cities; in this regard, tremendous efforts are called for in order to face the environmental challenges that play a major role in the creation or transformation of cities and environments. This book covers a broad range of applications and approaches that are "smart" and "resilient," which, when combined, offer much more flexibility concerning the future of our cities. Consequently, this simple combination, which is producing sweeping changes around the globe, has attracted

considerable attention from scholars and decision-makers alike.

## Construction Project Management An Integrated Approach

*Routledge* The role of the project manager continues to evolve, presenting new challenges to established practitioners and those entering the field for the first time. This second edition of Peter Fewings' groundbreaking textbook has been thoroughly revised to recognise the increasing importance of sustainability and lean construction in the construction industry. It also tackles the significance of design management, changing health and safety regulation, leadership and quality for continuous improvement of the service and the product. Using an integrated project management approach, emphasis is placed on the importance of effectively handling external factors in order to best achieve an on-schedule, on-budget result, as well as good negotiation with clients and skilled team leadership. Its holistic approach provides readers with a thorough guide in how to increase efficiency and communication at all stages while reducing costs, time and risk. Short case studies are used throughout the book to illustrate different tools and techniques. Combining the theories underpinning best practice in construction project management, with a wealth of practical examples, this book is uniquely valuable for practitioners and clients as well as undergraduate and graduate students for construction project management.

## Occupational Safety and Hygiene II

*CRC Press* Occupational Safety and Hygiene II contains selected papers from the International Symposium on Occupational Safety and Hygiene (SHO2014, Guimar Portugal, 13-14 February 2014), which was organized by the Portuguese Society for Occupational Safety and Hygiene (SPOSHO). The contributions focus on selected topics, which include (but is not limited t

## Construction Cost Management Learning from Case Studies

*Routledge* In this updated and expanded second edition, Keith Potts and Nii Ankrah examine key issues in construction cost management across the building and civil engineering sectors, both in the UK and overseas. Best practice from pre-contract to post-contract phases of the project life-cycle are illustrated using major projects such as Heathrow Terminal 5, Crossrail and the London 2012 Olympics as case studies. More worked examples, legal cases, case studies and current research have been introduced to cover every aspect of the cost manager's role. Whole-life costing, value management, and risk management are also addressed, and self-test questions at the end of each chapter support independent learning. This comprehensive book is essential reading for students on surveying and construction management programmes, as well as built environment practitioners with cost or project management responsibilities.

## Recent Trends in Social and Behaviour Sciences

## Proceedings of the International Congress on Interdisciplinary Behaviour and Social Sciences 2013

*CRC Press* 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 201

## Collaborative Design Management

*Routledge* The design process has always been central to construction, but recent years have seen its significance increase, and the ways of approaching it multiply. To an increasing degree, other stakeholders such as contractors have input at the design stage, and the designer's role includes tasks that were traditionally the realm of other professions. This presents challenges as well as opportunities, and both are introduced, discussed, and analysed in Collaborative Design Management. Case studies from the likes of ARUP, Buro Happold, VINCI Construction UK Ltd, and CIOB show how technologies (BIM, podcasting), innovative working (information management, collaboration), and the evolution of roles (the designer-contractor interface, environmental compliance) have changed design management as a process. Starting from a basic level, the reader is introduced to the key themes and background to the design management role, including definitions of the responsibilities now commonly involved, and the strategic importance of design. Influential technologies currently in use are evaluated, and the importance they are likely to have in future is explored. This combination of case studies from leading practitioners, clear explanations of design management roles and activities, and an exploration of how to successfully achieve collaborative design management makes this a highly topical and uniquely valuable book. This is essential reading for professionals and students of all levels interested in construction design management, from all AEC backgrounds.

# Research Companion to Construction Economics

*Edward Elgar Publishing* 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.

## Getting There by Design

# An Architect's Guide to Design and Project Management

*Routledge* In *Getting There by Design*, Allinson equips designers with an understanding of project management. The book begins by discussing the nature and features of project management before looking at the fundamentals issues of planning and control.