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Water Infrastructure for Sustainable Communities
Conceptual Structural Design
Design in the Terrain of Water
Integrating Innovation in Architecture

ENRIQUE RAMIREZ

Governing by Design Elsevier
This third, revised edition of best-selling Waterscapes reveals the wide variety of possibilities for using water as a creative element in the city, in the landscape and architecture. The works encompass large-scale masterplans, urban parks, river restaurations but also interior design schemes and art objects.
Design for Climate Change Images Publishing
0 0 1 113 647 The Images Publishing Group 5 1 759 14.0 Normal 0 false false false EN-AU JA X-NONE /* Style Definitions */ table.MsoNormalTable {mso-style-name:"Table Normal"; mso-tstyle-rowband-size:0; mso-tstyle-colband-size:0; mso-style-noshow:yes; mso-style-priority:99; mso-style-parent:""; mso-padding-alt:0in 5.4pt 0in 5.4pt; mso-para-margin:0in; mso-para-margin-bottom:.0001pt; mso-pagination:widow-orphan; font-size:10.0pt; font-family:Cambria;} China Construction Design International (CCDI) is one of Asia's premier architectural firms. It was ranked as the number one private architectural firm in China in 2004. In 2005, it became the first firm from China to receive an award from the United Nations Human Settlements Programme (UN-HABITAT). Among CCDI's completed projects are office towers, sports arenas, residential complexes and cultural centres, as well as many large-scale planning projects. All projects are based on the firm's core principles of integrated design, technology, environment and local public culture in order to design building solutions to meet the manifold needs of society. This is a unique opportunity to review award-winning architectural design in 21st century China.
The Rules of Project Risk Management Routledge
Today's design professionals are faced with challenges on all fronts. They need not only to keep in step with rapid technological changes and the current revolution in design and construction processes, but to lead the industry. This means actively seeking to innovate through design research, raising the bar in building performance and adopting advanced technologies in their practice. In a constant drive to improve design processes and services, how is it possible to implement innovations? And, moreover, to assimilate them in such a way that design, methods and technologies remain fully integrated? Focusing on innovations in architecture, this book covers new materials and design methods, advances in computational design practices, innovations in building technologies and construction techniques, and the integration of research with design. Moreover, it discusses strategies for integrating innovation into design practices, risks and economic impacts. Through numerous case studies, it illustrates how innovations have been implemented on actual architectural projects, and how design and technical innovations are used to improve building performance, as well as design practices in cutting-edge architectural and engineering firms. Projects of all scales and building types are discussed in the book, ranging from small-scale installations, academic and commercial buildings to large-scale mixed-use, healthcare, civic, academic, scientific research and sports facilities. Work from design firms around the globe and of various scales is discussed in the book, including for example Asymptote Architecture, cepezed, CO Architects, Consarc Architects, FAAB Architektura, Gerber Architekten, HOK, IDOM-ACXT, MAD Architects, Morphosis Architects, SDA | Synthesis Design + Architecture, Studiotrope, Perkins+Will, Richter Dahl Rocha & Associés, Snøhetta, Rob Ley Studio, Trahan Architects, UNStudio and Zaha Hadid Architects, among many others.
Waterscapes Thomas Telford
What will the world look like in 2050? How secure is your water supply? Can we all be consumers? When does waste become a resource? These are just some of the provocative questions posed by this collection of cards focused on why and how our world is changing. Conceived and designed by the Foresight, Innovation and Incubation team at Arup, the influential consulting firm that advises on all aspects of the built environment, this card set features seven topics that have been chosen as headings for further discussion: energy, waste, climate change, water, demographics, urbanization and poverty. The 189 cards are divided into five domains known as the STEEP framework: societal, technological, economic, environmental, and political. Each card represents a single driver of change-for instance urban migration, ageing population, austerity-along with a challenging and thought-provoking question. The flip side of the card provides pertinent data to expand on the question, as well as maps, graphs, and other illustrations. An accompanying booklet offers tips on how to use these cards independently or in a group setting. Whether brainstorming for new ideas or facilitating a discussion, these graphically sophisticated cards are an excellent resource for anyone interested in the future of technology, design and sustainability or indeed the way we might live in the years to come.
Revealing Change in Cultural Landscapes Walter de Gruyter
The evidence continues to grow that the effective management of risk is the very kernel of successful project management. Its absence frequently leaves project sponsors lamenting missed objectives and shareholders coming to terms with an organisation's poor bottom line performance. Dr Robert Chapman's The Rules of Project Risk Management stands out from other risk management texts because it provides very practical guidance, supported by numerous mini case studies, many of which have attracted considerable publicity. The book brings to life both the benefits of project risk management when effectively applied and the ramifications when it is misunderstood or receives scant attention. The structure of the book is based on International Standard ISO 31000 seen through the lens of general systems theory - where projects are undertaken by organisations which have an external context and internal sub-systems. A project system is seen to be composed of seven key subject areas. Practical short 'rules' or implementation guidelines, written in an engaging style, are offered to support each of these subject areas and aid quick assimilation of key risk management messages. Each rule focuses on a specific aspect of effective risk management which warrants attention in its own right. Taken together the rules will provide those implementing projects with the building blocks to secure a project's objectives. They have been drawn from a wealth of experience gained from applying risk management practices across multiple industries from Europe

to Africa, the Middle East and Asia.
Visual Culture in the Built Environment IWA Publishing
Water scarcity is becoming increasingly familiar to us. Although access to water resources is an issue of global concern, arid climates are where necessity begets inventions that may serve as examples for action or prevention across a multitude of climate zones and geographies. In facing the prevalence of water scarcity across the globe, due to a mix of climatological and man-made factors, the question we must ask ourselves today is Water for What? Which approaches can landscape, urban and architectural designers take in order to apply their specific professional skills and means? What potential do available technologies and materials offer, and what methods and tools can be derived from social engagement? Based on five years of research, the preparation of and feedback on a traveling exhibition, as well as a major conference, the results of the Out of Water project are laid out here in a series of case studies and essays by international experts, including analytical drawings of both projected and implemented solutions.
Water Sensitive Cities Walter de Gruyter
"After decades of being banished from residential areas, water is now becoming an increasingly significant feature in urban design. Whether it is the use of rainwater or the integration of natural water courses into the built environment, the incorporation of water elements in urban areas for climatic purposes or the creation of oases of tranquility or drama such as pools or fountains - all these aspects are not only encountering renewed interest among architects and urban planners, but they are also meeting with appreciation from the general public." "Here the varied aspects of water as an architectural element are considered, with specialists examining its artistic potential, its use outdoors, or its role in environmental technology. Some 35 international projects from many different areas will be a source of inspiration for architects and designers. Amongst the examples documented are the water management for the Potsdamer Platz area, Berlin, the landscaping in Harlemville, near New York, the water feature in Townsquare Kogorah, Sydney, the rainwater concept at the EXPO2000, Hanover, the roof terrace for Chicago City Hall, the water scene at the Opera Center, Warsaw, a water-sound installation in Hann Munden, and the landscape planning for the Solar City near Linz."--BOOK JACKET.Title Summary field provided by Blackwell North America, Inc. All Rights Reserved
Kinetic Architecture ORO Applied Research + Design
In addition, the book provides the reader with insight into many of the other concerns facing landscape architects, such as the image and the function of urban spaces, ecological survival, sustainability, native people and their settlements, environmental education and the role and nature of human settlement. * Detailed technical information presented in accessible format with full color illustrations * Careful examination of past designs provides unique resource for landscape architects to learn and improve their own work * Clear focus on modern examples helps architects meet uniquely modern challenges such as urban sprawl and environmental concerns
Routledge Handbook of Sports Technology and Engineering Routledge
Today’s urban water managers are faced with an unprecedented set of issues that call for a different approach to urban water management. These include the urgent changes needed to respond to climate change, population growth, growing resource constraints, and rapidly increasing global urbanization. Not only are these issues difficult to address, but they are facing us in an environment that is increasingly unpredictable and complex. Although innovative, new tools are now available to water professionals to address these challenges, solving the water problems of tomorrow cannot be done by the water professionals alone. Instead, the city of the future, whether in the developed or developing world, must integrate water management planning and operations with other city services to meet the needs of humans and the environment in a dramatically superior manner. Water Sensitive Cities has been developed from selected papers from 2009 Singapore Water Week “Planning for Sustainable Solutions” and also papers taken from other IWA events. It pulls together material that supports the water professionals’ need for useful and up-to-date material. Authors: Carol Howe, UNESCO-IHE Institute for Water Education, The Netherlands Cynthia Mitchell, University of Technology, Sydney, Australia
Drivers of Change University of Pittsburgh Pre
The current literature compartmentalizes the complex issue of water and wastewater into its discrete components; technology, planning, policy, construction, economics, etc. Considered from the perspective of sustainability, however, water in the urban environment must be approached as a single resource that can be continuously reused and recycled. This book will be the first to capture all of the current work on this idea in a single, integrated, plan for designing the water-centric cities of the future. From new construction to the retrofitting of existing systems, this book presents the case for a new urban relationship to water, one with a more sustainable connection to the environment and the hydrological cycle. Through case studies of successfully planned and built systems around the world, the book will educate the reader about the need for a new approach to urban water management, and make the case that these changes are not only possible but imperative.
Building with Water Routledge
This book constitutes the thoroughly refereed proceedings of the 13th Workshop of the European Group for Intelligent Computing in Engineering and Architecture, EG-ICE 2006, held in Ascona, Switzerland in June 2006. The 59 revised full papers were carefully reviewed and selected from numerous submissions for inclusion in the book. All issues of advanced informatics are covered including a range of techniques.
Earth Architecture John Wiley & Sons
Ford architects, contractors, engineers and specialists in the field, this book uses real-world evidence from a Technology Strategy Board-funded research project to develop a set of tools for architects and other building designers to meet a growing need to anticipate future climate change. Built on in his seminal future climate change report for the TSB, identifies three broad categories of climate change impacts on building design – comfort and energy performance, construction, and managing water.
Water Centric Sustainable Communities Routledge
Using the latest mapping techniques, J.A.A. Jones, Chair of the IGU Commission for Water Sustainability, examines water availability, the impact of climate change and the problems created for water management worldwide as well as possible solutions. Water Sustainability: A Global Perspective is one of the first textbook to meld the physical and human aspects affecting the world's water resources. Part One outlines the challenges and investigates the human factors: population growth; urbanization and pollution; the commercialization of water, including globalization and privatization; and the impacts of war, terrorism and the credit crunch. Part Two examines the physical aspects: the restless

water cycle, the impact of past and future climate change and the problems change and unreliability create for water management. Part Three discusses current and future solutions including improved efficiency and water treatment systems, desalination, weather modification and rainwater harvesting, and improved legal and administrative frameworks. Jones concludes by asking how far technical and financial innovations can overcome the limitations of climatic resources and examining the human and environmental costs involved in such developments. This book is the ideal text for any student of water sustainability whether approaching the subject from the point of view of international relations, geography or environmental management.

Intelligent Computing in Engineering and Architecture IWA Publishing

Governing by Design offers a unique perspective on twentieth-century architectural history. It disputes the primacy placed on individuals in the design and planning process and instead looks to the larger influences of politics, culture, economics, and globalization to uncover the roots of how our built environment evolves. In these chapters, historians offer their analysis on design as a vehicle for power and as a mediator of social currents. Power is defined through a variety of forms: modernization, obsolescence, technology, capital, ergonomics, biopolitics, and others. The chapters explore the diffusion of power through the establishment of norms and networks that frame human conduct, action, identity, and design. They follow design as it functions through the body, in the home, and at the state and international level. Overall, Aggregate views the intersection of architecture with the human need for what Foucault termed "governmentality"—societal rules, structures, repetition, and protocols—as a way to provide security and tame risk. Here, the conjunction of power and the power of design reinforces governmentality and infuses a sense of social permanence despite the exceedingly fluid nature of societies and the disintegration of cultural memory in the modern era.

CCDI Architecture Routledge

This book is about a new approach to design, construction, and facility management called building information modeling. It provides an in-dept understanding of BIM technologies, the business and organizational issues associated with its implementation, and the profound impacts that effective use of BIM can provide to all members of a project team.

Water Sustainability Bloomsbury Publishing USA

The Rules of Project Risk Management, 2nd Edition, provides practical experience-based guidance to support the delivery of effective project risk management. While the discipline is recognised as a major contributor to the successful outcome of projects, its implementation is far from straightforward. Successful delivery requires an in-depth understanding of the "ingredients" of effective risk management practices which impact project performance. The book’s value is derived from the description of these ingredients in a manner which will support their practical implementation. The author describes a series of guidelines (labelled "rules") to support the practical application of project risk management to positively influence project outcomes. The rules are supported by mini case studies of both successful and unsuccessful projects to bring to life the ramifications of effective and poor risk management respectively, and are assembled under seven headings of environment, external stakeholders, organisation and culture, leadership and governance, internal stakeholders, risk resources and system. This second edition contains a new glossary of terms and an overview of the risk management process to enable those new to the subject to understand the core risk management activities. It also contains six more individual guidelines and ten more case studies to support practitioners, researchers and academics alike to gain an even greater appreciation of the drivers of successful project risk management. Enabling the reader to "get inside" risk management to gain an appreciation of the individual components and "how the engine works", this book is essential reading for project and risk management professionals. While the guidelines are described individually so specific subjects can be examined in detail, they must be considered together, for like a car, specialist carburettors, fuel injection or high-octane fuel on their own do not support improved performance. The guidelines can be considered as the elements that should be taken into account when compiling a risk maturity model to drive incremental improvement in risk management practices.

New Waterscapes CRC Press

Fully revised and updated, this second edition of Water Ethics continues to consolidate water ethics as a key dimension of water-related decisions. The book introduces the idea that ethics are an intrinsic dimension of any water policy, program, or practice, and that understanding what ethics are being acted out in water policies is fundamental to an understanding of water resource management. Alongside updated references and the introduction of discussion questions and recommended further reading, this new edition discusses in depth three significant developments since the publication of the first edition in 2013. The first is the growing awareness of the climate crisis as an existential threat, and associated concern about adaptive strategies for sustainable water management and ways of using water management for climate mitigation (e.g., practically through agricultural soil management and conceptually through ethics awareness). Second, there has been increased clarity among the religious community, Indigenous leaders, and progressive academics that ethics needs to become an arena for application and action (e.g., the Vatican encyclical Laudato Si, protests at Standing Rock and Flint, Michigan, in the US, and climate demonstrations worldwide). Thirdly, there have been new normative water standards ranging from "water stewardship" (industry initiative), water charters (Berlin) and the on-going initiative to develop a global water ethics charter. Drawing on case studies from countries including Australia, India, the Philippines, South Africa, and the United States, this textbook is essential reading for students of environmental ethics and water governance and management.

Infrastructure as Business John Wiley & Sons

An inside view of how one of the world's leading architecture and engineering practice does business Sustainable Built Environments: Principles and Practice offers detailed, environmentally sound design solutions to a wide range of building engineering challenges. The text uses case examples and project data provided by engineers and designers at Arup Associates. It covers a broad range of relevant issues, with focused commentaries and explanations presented in an accessible format for use by students, busy practitioners and informed clients. Whilst this book stresses the importance of a unified approach to design, the text is divided into six principal chapters, each addressing an important aspect of sustainable architecture and engineering. These chapters (Master Planning, Transport, Energy, The Building Envelope, Environmental Services, and Materials) may be read on their own or in sequence

as part of a narrative. Throughout the book, photographs, architectural and engineering drawings and diagrams, examples, and other data illustrate the case studies. Numerous web links are provided to additional information. This inspirational book: Focuses on the work of Arup Associates, the award winning architectural and engineering practice Uses real-life examples of functioning buildings and structures to provide information and guidance on the development of sustainable solutions Is packed with informative illustrations Sustainable Built Environments: Principles and Practice is a unique text that will inform and inspire architects and engineers, as well as students of those disciplines, around the globe.

Managing the Psychological Contract Birkhäuser
This book aims to brige the gap between engineers' and architects' understanding of structural form. Its intention is to inspire the development of innovative and viable structures. It presents case studies where imaginative structural forms are in harmony with the architectural concept and at the same time present very efficient solutions to technical and structural problems.

Arup’s Tall Buildings in Asia Riba Publishing
A shift in the architecture industry’s focus in the last 20 years toward ecological concerns, long-term value, and user comfort has coincided with significant new developments in digital controls, actuators, shading typologies, building physics simulation capability, and material performance. This collision has afforded architects an expanded set of opportunities to create architecture that can respond directly to environmental conditions, resulting in innovative façade designs that quickly become landmarks for their cities. Authors Russell Fortmeyer and Charles Linn trace the historical development of active façades in modern architecture, and reveal how contemporary architects and consultants design and test these systems.

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