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Green Cities

The Archive of James Russell, Garden Designer

Visual Culture in the Built Environment

Nanotechnology in Industrial Wastewater Treatment

Routledge Handbook of Sports Technology and Engineering

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CASSIUS EVELYN

Green Cities John Wiley & Sons

"In this Very Short Introduction Andrew Davies looks at how projects have developed since the industrial revolution to create the human-built world in which we live, work, and play. Considering some of our greatest endeavours such as the Erie Canal, Apollo Moon landing, Japanese product development, and Chinese ecocity projects, Davies identifies how projects are organized and managed to design and produce large and complex systems, cope with fast changing conditions, and deal with the immense uncertainties required to create breakthrough innovations in products and services. He concludes by considering how projects could be organized to address the challenges facing the post-industrial society of the 21st century"-- Amazon.com.

The Archive of James Russell, Garden Designer Princeton Architectural Press

An updated guide to designing buildings that heat with the sun, cool with the wind, and light

with the sky. This fully updated Third Edition covers principles of designing buildings that use the sun for heating, wind for cooling, and daylight for natural lighting. Using hundreds of illustrations, this book offers practical strategies that give the designer the tools they need to make energy efficient buildings. Hundreds of illustrations and practical strategies give the designer the tools they need to make energy efficient buildings. Organized to quickly guide the designer in making buildings respond to the sun, wind and light. *Visual Culture in the Built Environment* Routledge Integrated Sustainable Design of Buildings aims to provide a guide to members of design and masterplanning teams on how to deliver sustainable development and buildings cost effectively, meeting current and emerging UK and international statutory and planning requirements. Using a series of case histories and examples from the author's ten years of providing sustainability advisory services the book sets out a clear and understandable strategy that deals with all aspects of sustainable design and

construction and the implications for delivery, costs, saleability and long term operation. The extensive scope includes all aspects of environmental, social and economic sustainability, including strategies to reduce carbon emissions and the impact of climate change. Integrated Sustainable Design of Buildings appeared in the Cambridge Top 40 Sustainability Books of 2010.

Nanotechnology in Industrial Wastewater Treatment Bloomsbury Publishing USA

Via 150 signed articles, *Green Cities: An A-to-Z Guide* provides an overview of the key concepts that urban planners, policy makers, architects, engineers, and developers use to understand the sustainability dimensions of the urban environment. It identifies cities that have taken steps to become greener and discusses the strategies they have used; it also reviews broad concepts associated with green cities. Cities face enormous environmental challenges, and the entries in this volume, from case studies of greener cities to discussions of green

urban design, infrastructure, and processes, can help us transform our cities into healthier, sustainable communities in which a growing urban population can thrive. Vivid photographs, searchable hyperlinks, numerous cross references, an extensive resource guide, and a clear, accessible writing style make the Green Society volumes ideal for classroom use as well as for research.

Routledge Handbook of Sports Technology and Engineering Gulf Professional Publishing
"Taken from a collection of papers presented at the prestigious 2010 North American Tunneling Conference"--p. [4] of cover.

Design for Inclusivity John Wiley & Sons

Two Degrees reviews the current science and predictions for global warming and looks at what steps can be taken to design the built environment to mitigate the extent of global warming and to adapt to inevitable changes in climate.

Integrated Sustainable Design of Buildings

Springer Nature
A deep exploration of modern life that examines our cities, public places,

and homes Following How Architecture Works, Witold Rybczynski casts a seasoned critical eye over the modern scene with Mysteries of the Mall. His subject is nothing less than the broad setting of our metropolitan world. In thirty-five discerning essays, Rybczynski ranges over subjects as varied as shopping malls, Central Park, the Paris opera house, and America's shrinking cities. Along the way, he examines our post-9/11 obsession with security, the revival of the big-city library, the rise of college towns, and our fascination with vacation homes, and he visits Disney's planned community of Celebration. By looking at contemporary architects as diverse as Frank Gehry, Moshe Safdie, and Bing Thom, revisiting old masters such as Christopher Wren, Le Corbusier, and Frank Lloyd Wright, and considering such unsung innovators as Stanley H. Durwood, the inventor of the Cineplex, Rybczynski ponders the role of global cities in an age of tourism and what places attract us in the modern city. Mysteries of the Mall is required reading for anyone curious about the modern world and how it

came to be that way. Sustainable Building Design Springer Nature
Architects and engineers both claim to be designers, though how they define design and the approaches they use to realize it, vary widely. However their interaction has also created some of the world's most memorable, enduring and impressive buildings. The unprecedented impact of digital technologies illuminates the complexity and non-linearity of the process that these designers go through while massively expanding both the ability to visualize and represent forms, and to analyze their structural behavior. It has obviously changed both architecture and engineering, and so also the potential for interaction between them. Interdisciplinary Design began as a course at Harvard GSD attended by graduate students in architecture and also by MIT graduate students in structural engineering and computation. In this course students and instructors examined a series of built projects in order to develop new viewpoints and communication across disciplinary boundaries in teaching, practice and

construction.

Intelligent Computing in Engineering and Architecture Thomas Telford

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

Arup's Tall Buildings in Asia CRC Press

This book explores different design approaches to revealing change within a landscape, and examines how landscape designers bring together the cultural context of a specific place with material, spatial and ecological considerations.

Revealing Change in Cultural Landscapes includes case studies such as Gilles Clément's Jardin du Tiers-Paysage in France, the Brick Pit in Sydney, Australia and Georges Descombes' Renaturation of the River Aire in Switzerland to uncover the insights of designers. In doing so, Catherine Heatherington considers the different ways designers approach the revealing of change and how this informs a discussion about people's perceptions and understanding of landscape. With over 100 images and contributions from Jacky Bowring, Dermot Foley and Krystallia Kamvasinou, this book will be beneficial for students of landscape and landscape architecture, particularly those with an interest in how landscapes change over time and how this is perceived by both designers and visitors.

Earth Architecture Routledge

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. *Revealing Change in Cultural Landscapes* CRC Press

Cox Architects are world renowned for many aspects of their work, not the least of which has been extending an Australian architectural ethos beyond houses and into large scale projects such as the Yulara Tourist Resort in Uluru. They are

also recognised

Two Degrees Princeton Architectural Press
Dieses Buch zeigt die diversen Möglichkeiten der kreativen Arbeit mit Wasser in der Stadt, Kunst, Landschaft und Architektur. Die dokumentierten Arbeiten umfassen u.a. den Botanischen Garten im New Yorker Stadtteil Queens, den Umbau eines ehemaligen Flughafens in Oslo oder das Gesamtkonzept für die Renaturierung der Emscher im Ruhrgebiet.

Urban Hydrology, Watershed

Management and Socio-Economic

Aspects Profile Books
This book examines complex challenges in managing major strategic economic and social infrastructure projects. It is divided into four primary themes: value-based approach to infrastructure systems appraisal, enabling planning and execution, financing and contracting strategies for infrastructure systems and digitising major infrastructure delivery. Within these four themes, the chapters of the book cover: the value and benefits of infrastructure projects planning for resilient major

infrastructure projects sustainable major infrastructure development and management, including during mega events improving infrastructure project financing stakeholder engagement and multi-partner collaborations delivering major infrastructure projects effectively and efficiently whole-life-cycle performance, operations and maintenance relationship risks on major infrastructure projects public-private partnerships, design thinking principles, and innovation and technology. By drawing on insights from their research, the editors and contributors bring a fresh perspective to the transformation of major strategic infrastructure projects. This text is designed to help policymakers and investors select and prioritise their infrastructure needs beyond the constraining logic of political cycles. It offers a practical set of recommendations for governments on attracting private capital for infrastructure projects while creating clear social and economic value for their citizens. Through theoretical underpinning,

empirical data and in-depth informative global case studies, the book presents an essential resource for students, researchers, practitioners and policymakers interested in all aspects of strategic infrastructure planning, project management, construction management, engineering and business management.

Infrastructure as Business Routledge

What separates good architecture from great architecture? The difference lies in the details. The way an architect chooses to treat architectural detailingscreens and walls, doors and windows, roofs, bridges, and stairs can transform the merely ordinary into the extraordinary. Detail in Process, the second volume in the new AsBuilt series, features twenty-five awe-inspiring projects characterized by an unusual synthesis of aesthetics and materials: the sunshade at Morphosis's Student Recreation Center in Cincinnati; the embossed and perforated copper skin of Herzog & de Meuron's de Young Museum in San Francisco; the handrails at Mir Rivera

Architects', Lake Austin Footbridge in Austin; the stairs at Heatherwick Studio's, Longchamp Store in New York City; plus twenty more. Editors Christine Killory and Ren Davids have collected the best work of the past two years including new buildings by some of today's most daring and detail-obsessed architects: Norman Foster, James Carpenter, John Ronan, Renzo Piano, Marmol Radziner, Tadao Ando, Steven Holl, Jean Nouvel, David Chipperfield, and SANAA. Comprehensively documented, Detail in Process includes the plans, details, and large-scale sections needed to appreciate the innovative ways these architects have responded to complicated design problems.

Mysteries of the Mall
SAGE

The book brings together high-quality research articles on advanced hydrological analysis, advanced computational methods, and the ecological and sociological aspects of urban watershed management under one umbrella. The rapid pace of urbanization, not accompanied by any farsighted, holistic plan,

has reduced many cities in the developing world into multi-hazard areas. The most perceptible consequence of urbanization is the change in land-use and land cover, which in turn impacts hydrological systems. Accordingly, scientific studies on urban hydrology with due emphasis on ecological and sociological aspects under changing climate are vital to the appropriate design of urban landscapes and civil infrastructure works. This book addresses precisely these issues, offering a useful guide for environmentalists, hydrologists, and a broad range of socio-economic scientists exploring the environmental vulnerabilities arising from urbanization.

Water Centric Sustainable Communities Birkhauser
Arup's Tall Buildings in Asia
Routledge
IWA Publishing

Recently there has been a plethora of work published on the topic of sustainability, much of which is purely theoretical or technical in its approach. More often than not these books fail to introduce readers to the larger challenge of what thinking sustainably might entail. Combining a series

of well know authors in contemporary philosophy with established practitioners of sustainable design, this book develops a coherent theoretical framework for how theories of sustainability might engage with the growing practice of design. This book: brings together new and emerging perspectives on sustainability provides cohesive and jargon-free reading articulates the specificity of both theory and practice, to develop a symbiotic relationship which allows the reader to understand what thinking sustainably entails This volume describes a variety of new ways to approach sustainable design and it equips the next generation of designers with necessary conceptual tools for thinking sustainably.

What Has Nature Ever Done For Us? Routledge

This book aims to bridge 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.

Routledge Handbook of Planning and Management of Global Strategic Infrastructure Projects
 Borthwick Publications
 Infrastructure as Business brings new emphasis and clarity to the importance of private investment capital in large-scale infrastructure projects, introducing investors, policymakers, and other stakeholders to a key element that is surprisingly absent from the discourse on public-private partnerships. Despite the importance of modernizing infrastructure across the globe, governments often face challenges in securing the necessary capital to meet future need, as well as developing policy to meet these goals. Explaining the structure of the private investment

universe and flow of private capital in such projects, this book ambitiously aims to bridge this "infrastructure gap" by elucidating shared terminology, conceptual frameworks, and an alignment of goals and objectives between public and private sectors—essential to meet increasing environmental, social, and governmental requirements for infrastructure in coming years. Appropriate for graduate-level courses in real estate, public policy, and urban planning that focus on infrastructure, project finance, and procurement and delivery models such as PPPs. Provides a clear understanding of private investment and PPPs to the investment community as well as professionals in real estate, project finance, and related fields, who often learn mostly on-the-job and from colleagues. Equips government officials and policymakers

with key terms and concepts needed to "sit across the table" with private financiers and explore opportunities for private capital investment in early project stages. Outlines communication strategies for both public and private sectors, which will increasingly need to collaborate to address climate change, respond to new technologies, and develop efficient ways to deliver services. Written to engage academic, private investment, and public policy/governance audiences alike, Infrastructure as Business: The Role of Private Investment Capital invites discussion and opens doors to advancing new business models, with international applications, to offer increased value for private investors as well as more efficient, flexible funding for innovative infrastructure development in the future.

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