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DUDLEY CONOR

The Shah's Imperial Celebrations of 1971
 BRILL

This volume presents a chronologically ordered and detailed account of the developing relationship between technics and poetics in environmental design in architecture through a consideration of the work of major names in the field.

Corporate Social Responsibility in the Construction Industry Routledge

This chapter continues the discussions of the development of advanced polymer composite material applications associated with bridge engineering. It focuses on the rehabilitation of metallic bridge structures, all-FRP composite bridges and bridges built with hybrid

systems. covered the materials used in FRP composites, in-service properties and applications of FRP composites in bridge enclosures, the rehabilitation of reinforced and prestressed concrete bridge beams and columns.

Participatory Culture and the Social Value of an Architectural Icon: Sydney Opera House Frances Lincoln
Structure as Architecture presents a comprehensive analysis of the indispensable role of structure in architecture. An exploration, as well as a celebration, of structure, the book draws on a series of design studies and case study examples to illustrate how structure can be employed to realize a wide range of concepts in contemporary architecture. By examining design principles that relate to both architecture and structural engineering, Andrew Charleson provides

new insights into the relationship between both the technical and aesthetic aspects of architecture. Now in its second edition, the text has been extensively revised and updated throughout. Features include: A brand new chapter on hidden structure, adding to the material on exposed structures Two new chapters on using structure to realise common architectural concepts through a combination of precedents and creative design Over 50 new case studies from across the globe Easy-to-understand diagrams and a highly visual design to aid understanding and accessibility More than two hundred case studies of contemporary buildings from countries such as the UK, the US, France, Germany, Spain, Hong Kong, Australia and Japan illustrate how a thorough integration of structure adds layers of richness and enhances the realisation of architectural

design concepts.

Restorative Cities Routledge

Sensors are used for civil infrastructure performance assessment and health monitoring, and have evolved significantly through developments in materials and methodologies. *Sensor Technologies for Civil Infrastructure Volume II* provides an overview of sensor data analysis and case studies in assessing and monitoring civil infrastructures. Part one focuses on sensor data interrogation and decision making, with chapters on data management technologies, data analysis, techniques for damage detection and structural damage detection. Part two is made up of case studies in assessing and monitoring specific structures such as bridges, towers, buildings, dams, tunnels, pipelines, and roads. *Sensor Technologies for Civil Infrastructure* provides a standard reference for structural and civil engineers, electronics engineers, and academics with an interest in the field. Provides an in-depth examination of sensor data management and analytical techniques for fault detection and localization, looking at prognosis and life-cycle assessment. Includes case studies in assessing structures such as bridges, buildings, super-tall towers, dams, tunnels, wind turbines, railroad tracks, nuclear power plants, offshore structures, levees, and pipelines

Managing a Global Workforce CCLP Worldwide

Outrigger systems are rigid horizontal structures designed to improve a building's stability and strength by connecting the building core or spine to distant columns, much in the way an outrigger can prevent a canoe from overturning. Outriggers have been used in tall, narrow buildings for nearly 500 years, but the basic design principle dates back centuries. In the 1980s, as buildings grew taller and more ambitious, outrigger systems eclipsed tubular frames as the most popular structural approach for supertall buildings. Designers embraced properly proportioned core-and-outrigger schemes as a method to offer far more perimeter flexibility and openness for tall buildings than the perimeter moment or braced frames and bundled tubes that preceded them. However, the outrigger system is not listed as a seismic lateral load-resisting system in any code, and design parameters are not available, despite the increasingly frequent use of the concept. The Council on Tall Buildings and Urban Habitat's Outrigger Working Group has addressed the pressing need for design guidelines for outrigger systems with this guide, a comprehensive overview

of the use of outriggers in skyscrapers.

This guide offers detailed recommendations for analysis of outriggers within the lateral load-resisting systems of tall buildings, for recognizing and addressing effects on building behavior and for practical design solutions. It also highlights concerns specific to the outrigger structural system such as differential column shortening and construction sequence impacts. Several project examples are explored in depth, illustrating the role of outrigger systems in tall building designs and providing ideas for future projects. The guide details the impact of outrigger systems on tall building designs, and demonstrates ways in which the technology is continuously advancing to improve the efficiency and stability of tall buildings around the world. *A Handbook of Sustainable Building Design and Engineering* Routledge

In this thought provoking book, Komla Tsey argues that if governments, NGOs, development donor agencies and researchers are serious about development in Africa, they need to get down to ground level, both metaphorically and literally. They must search deep into Africa's own rich oral traditions by creating space and opportunity for ordinary Africans, whose voices have so far been conspicuously absent in the development discourse, to tell and share their own stories of development. Story-sharing as research methodology acts as a mirror, reflecting the participants self-evaluation of where they have come from, where they are now, and how to proceed into the future. They are strategies that can empower and enable individuals and communities of people to be agents of their own change which, in Tsey's view, is what development is all about.

Emergent Architectural Territories in East Asian Cities Routledge

Looks at the issues of sustainability and environmental impact in the field of building design and architecture. This book addresses sustainability in building design through development of a series of examples presented as three dimensional models of well-integrated building systems.

Geopolitical Economy of Energy and Environment Routledge

'Global insurance and its rapidly evolving law and regulation demands international research. To this aim, the Handbook offers a truly international collection of essays. Highly renowned experts analyze the key topics currently under international discussion and development. While representing a diversity of national jurisdictions, the focus lies on the largest

insurance jurisdictions (USA, UK and Germany) but newly important jurisdictions like Brazil and China are considered as well a most valuable and important contribution to international insurance law literature.' Manfred Wandt, Director of the Insurance Law Institute, Goethe-University Frankfurt, Germany 'This Research Handbook is published at an opportune time. A global review of insurance law and regulation is underway. Much reform happens locally with little reference to developments elsewhere and this Research Handbook brings the strands together. It is a comprehensive review by distinguished authors from different backgrounds including both leading academics and practitioners. They consider the definitions of insurance, its economic underpinnings, comparative law and regulations, actual and proposed reforms, the effects on underwriting and claims and how insurance is studied and taught. Good laws and regulation benefit the market and its customers. Bad laws and regulation do the opposite. This book is required reading for all involved in the reform process.' David Hertzell, Law Commissioner 'Globalisation has had no greater impact in the commercial world than on insurance, the law which governs it and the risks it seeks to address. Those who inspired this publication and the contributing authors, are to be thanked for providing such a necessary and useful reference source. It covers so much of what insurance professionals need to be aware of in the insurance/law world of the twenty first century.' Michael Gill, President of the International Insurance Law Association Given its economic importance, insurance is a field that has been underserved as an area of academic study. This detailed book provides much needed coverage of insurance law and regulation in its international context. Produced in association with Lloyd's, it draws on the expertise both of academics and practising lawyers. Containing 30 comprehensive chapters, it provides in-depth studies on key areas, such as the role of international organisations, the judicial interpretation of insurance contract clauses and transnational regulatory recognition. It also provides thorough introductions to important jurisdictions, including the EU, US and Japan as well as focusing on newly emerging economies such as China and Brazil. Specialist topics covered include regulation by and of Lloyd's, the tort of bad faith in the US, microinsurance and takaful insurance. This well-documented resource will appeal to academics and students in insurance law and regulation,

policymakers and private practice lawyers. The book also aims to stretch the imagination of anyone with an interest in insurance law and regulation, providing detailed analysis and avenues for further investigation.

Sensor Technologies for Civil Infrastructures Taylor & Francis

Complexity in architecture, construction and material manipulation is constantly increasing due to our present ability to design, calculate and fabricate an extending range of geometric shapes and systems. This volume addresses the design of complexity in the planning, fabrication and construction of steel structures based on non-orthogonal geometries: curved and chaotic geometries, poly-diagrid systems, lattice-grid structures and others. Topical photographs by the author on a wide range of international projects present innovative methods and techniques, providing an excellent understanding of the possibilities and requirements of complex steel structures.

The Environmental Imagination WIT Press

This guide sets out recommendations for every phase of the planning, construction and operation of natural ventilation systems in these buildings, including local climatic factors that need to be taken into account, how to plan for seasonal variations in weather, and the risks in adopting different implementation strategies. All of the recommendations are based on analysis of the research findings from richly-illustrated international case studies. This is the first technical guide from the Council on Tall Buildings and Urban Habitat's Tall Buildings & Sustainability Working Group looking in depth at a key element in the creation of tall buildings with a much-reduced environmental impact, while taking the industry closer to an appreciation of what constitutes a sustainable tall building, and what factors affect the sustainability threshold for tall.

The Routledge Companion to Critical Approaches to Contemporary Architecture Elsevier Inc. Chapters

The structural challenges of building 800 metres into the sky are substantial, and include several factors which do not affect low-rise construction. This book focusses on these areas specifically to provide the architectural and structural knowledge which must be taken into account in order to design tall buildings successfully. In presenting examples of steel, reinforced concrete, and composite structural systems for such buildings, it is shown that wind load has a very important effect on the architectural and structural design.

The aerodynamic approach to tall buildings is considered in this context, as is earthquake induced lateral loading. Case studies of some of the world's most iconic buildings, illustrated with full colour photographs, structural plans and axonometrics, will bring to life the design challenges which they presented to architects and structural engineers. The Empire State Building, the Burj Khalifa, Taipei 101 and the HSB Turning Torso are just a few examples of the buildings whose real-life specifications are used to explain and illustrate core design principles, and their subsequent effect on the finished structure.

Complex Steel Structures Taylor & Francis
Examining the impact of the construction industry on society, this book incorporates expert contributions on government intervention, human and employee rights, community involvement, corruption in the procurement process, and environmental damage.

Renzo Piano Edward Elgar Publishing
Managing a Global Workforce examines important human resource management issues and practices in today's global marketplace, helping current and future managers and leaders, regardless of nationality, in making effective human talent management decisions for optimal organizational performance. This fourth edition includes significant updates to reflect recent global developments affecting the management of global HRM, including the following: • The COVID-19 pandemic and its impact on new work expectations/arrangements; • The Great Resignation; • AI and automation; • Managing diversity, equity, and inclusion; • Climate change; • Emerging economies; and • CSR/ethics/sustainability The new edition also includes several new opening and closing brief cases to promote applied reflection and discussion, as well as updated references to important research. With its practical, real-world emphasis, including frequent use of current examples, the text also serves as a useful resource for guiding the global workforce management and decision-making of current and future general managers and human resource practitioners. This book is essential reading for general graduate and undergraduate business students, as well as those in specialty programs in International Business and Human Resources.

Re-thinking Development in Africa Routledge

Today's most pressing challenges require behaviour change at many levels, from the city to the individual. This book focuses on the collective influences that can be seen

to shape change. Exploring the underlying dimensions of behaviour change in terms of consumption, media, social innovation and urban systems, the essays in this book are from many disciplines, including architecture, urban design, industrial design and engineering, sociology, psychology, cultural studies, waste management and public policy. Aimed especially at designers and architects, *Motivating Change* explores the diversity of current approaches to change, and the multiple ways in which behaviour can be understood as an enactment of values and beliefs, standards and habitual practices in daily life, and more broadly in the urban environment.

Tall Buildings Routledge

With increasing concern of human being on the issue sustainability, the interpretation has also become a fanciful exercise. The issue sustainability can be understood from two perspectives, the first one is reductive approach, second is the holistic approach.

Advanced fibre-reinforced polymer (FRP) composites for structural applications Routledge

Overcrowding, noise and air pollution, long commutes and lack of daylight can take a huge toll on the mental well-being of city-dwellers. With mental healthcare services under increasing pressure, could a better approach to urban design and planning provide a solution? The restrictions faced by city residents around the world during the COVID-19 pandemic has brought home just how much urban design can affect our mental health – and created an imperative to seize this opportunity. *Restorative Cities* explores a new way of designing cities, one which places mental health and wellness at the forefront. Establishing a blueprint for urban design for mental health, it examines a range of strategies – from sensory architecture to place-making for creativity and community – and brings a genuinely evidence-based approach that will appeal to designers and planners, health practitioners and researchers alike – and provide compelling insights for anyone who cares about how our surroundings affect us. Written by a psychiatrist and public health specialist, and an environmental psychologist with extensive experience of architectural practice, this much-needed work will prompt debate and inspire built environment students and professionals to think more about the positive potential of their designs for mental well-being.

Green Building Trends John Wiley & Sons

This book presents current developments in city planning and architecture in East

Asia. It describes the many neighborhoods in which the region's large cities are modernizing or expanding with innovative structures and advanced construction projects. It combines a typology of public structures with an analysis of the compositional principles of urban environments. Thus, it finally connects new developments in city planning with new developments in architecture, and considers examples such as CCTV, Lujiazui, Kansai Airport, Xinyi, Taipei 101, Chek Lap Kok, Cheonggyecheon, Roppongi Hills, Da Shanzi, Shahe, Omotesando, and Marina Bay from a new perspective. And the new perspectives presented here are not just theoretical: some forty full-page bird's eye views prepared especially for this volume show these future urban settings in highly detailed images of breathtaking beauty. The result is a rich portrait of the coming together of global and local influences in non-Western countries. With its systematic approach, this presentation by one of the leading international experts in the field is a reference work on a topic of central importance to the world of construction today.

Outrigger Design for High-Rise

Buildings Walter de Gruyter

Seismic isolation offers the highest degree of earthquake protection to buildings and their inhabitants. Modern applications of the technology are less than 50 years old and uptake in seismically active regions continues to soar. *Seismic Isolation for Architects* is a comprehensive introduction to the theory and practice in this field. Based on the latest research findings and the authors' extensive experience, coverage includes the application, effectiveness, benefits, and limitations of seismic isolation, as well as the architectural form, design aspects, retrofitting, economics, construction, and maintenance related to this method. The book is written for an international audience: the authors review codes and practices from a number of countries and draw on examples from eleven territories including the US, Chile, Argentina, Italy, Japan, and New Zealand. Aimed at readers without prior knowledge of structural engineering, the book provides an accessible, non-technical approach

without using equations or calculations, instead using over 200 drawings, diagrams and images to support the text. This book is key reading for students on architecture and civil engineering courses looking for a clear introduction to seismic-resistant design, as well as architects and engineers working in seismically active regions.

[Motivating Change: Sustainable Design and Behaviour in the Built Environment](#)
Routledge

NEW YORK TIMES BESTSELLER From the former vice president and #1 New York Times bestselling author comes *An Inconvenient Truth* for everything—a frank and clear-eyed assessment of six critical drivers of global change in the decades to come. Ours is a time of revolutionary change that has no precedent in history. With the same passion he brought to the challenge of climate change, and with his decades of experience on the front lines of global policy, Al Gore surveys our planet's beclouded horizon and offers a sober, learned, and ultimately hopeful forecast in the visionary tradition of Alvin Toffler's *Future Shock* and John Naisbitt's *Megatrends*. In *The Future*, Gore identifies the emerging forces that are reshaping our world: • Ever-increasing economic globalization has led to the emergence of what he labels "Earth Inc."—an integrated holistic entity with a new and different relationship to capital, labor, consumer markets, and national governments than in the past. • The worldwide digital communications, Internet, and computer revolutions have led to the emergence of "the Global Mind," which links the thoughts and feelings of billions of people and connects intelligent machines, robots, ubiquitous sensors, and databases. • The balance of global political, economic, and military power is shifting more profoundly than at any time in the last five hundred years—from a U.S.-centered system to one with multiple emerging centers of power, from nation-states to private actors, and from political systems to markets. • A deeply flawed economic compass is leading us to unsustainable growth in consumption, pollution flows, and depletion of the planet's strategic resources of topsoil, freshwater, and living species. • Genomic, biotechnology,

neuroscience, and life sciences revolutions are radically transforming the fields of medicine, agriculture, and molecular science—and are putting control of evolution in human hands. • There has been a radical disruption of the relationship between human beings and the earth's ecosystems, along with the beginning of a revolutionary transformation of energy systems, agriculture, transportation, and construction worldwide. From his earliest days in public life, Al Gore has been warning us of the promise and peril of emergent truths—no matter how "inconvenient" they may seem to be. As absorbing as it is visionary, *The Future* is a map of the world to come, from a man who has looked ahead before and been proven all too right. Praise for *The Future* "Magisterial . . . The passion is unmistakable. So is the knowledge. Practically every page offers an illumination."—Bloomberg "In *The Future* . . . Gore takes on a subject whose scale matches that of his achievements and ambition."—The New York Times Book Review "Historically grounded . . . Gore's strengths lie in his passion for the subject and in his ability to take the long view by putting current events and trends in historical context."—Publishers Weekly "Provocative, smart, densely argued . . . a tour de force of Big Picture thinking."—Kirkus Reviews (starred review) "A luminously intelligent analysis that is packed with arresting ideas and facts."—The Guardian

Structure As Architecture Random House

The Routledge Companion to Critical Approaches to Contemporary Architecture convenes a wide array of critical voices from architecture, art history, urbanism, geography, anthropology, media and performance studies, computer science, bio-engineering, environmental studies, and sociology that help us understand the meaning and significance of global architecture of the twenty-first century. New chapters by 36 contributors illustrated with over 140 black-and-white images are assembled in six parts concerning both real and virtual spaces: design, materiality, alterity, technologies, cityscapes, and practice.

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