Design For Flooding Architecture Landscape And Urban Design For Resilience To Climate Change

This resource addresses regional, territorial, and continental water issues through interdisciplinary design research in landscape architecture. The text assembles scholarly papers from designers that reframe complex issues of industrial agriculture, energy production, urban sewersheds, water law, transportation tributaries, and cross-watershed diversions, to propose new inland water futures.

Aimed at prospective and new students, this book gives a comprehensive introduction to the nature and practice of landscape architecture, the professional skills required and the latest developments. After discussing the history of the profession, the book explains the design process through principles such as hierarchy, human scale, unity, harmony, asymmetry, colour, form and texture. It looks at how design is represented through both drawing and modelling, and through digital techniques such as CAD and the use of GIS (Geographic Information Systems). This is followed by an examination of project management and landscape management techniques. Finally, the book explores educational and employment opportunities and the future of the profession in the context of climate change and sustainability. Illustrated with international examples of completed projects, Landscape Architecture provides an invaluable, one-stop resource for anyone considering studying or a career in this field.

Beneath the ordinary world and everyday life in Bangalore lies an extraordinary landscape, rich in material, language and innovation. Deccan Traverses explores this depth beneath a city that is today, as it has been for two centuries, a significant force in a global economy.

This book presents a new type of modeling environment where users interact with geospatial simulations using 3D physical models of studied landscapes. Multiple users can alter the physical model by hand during scanning, thereby providing input for simulation of geophysical processes in this setting. The authors have developed innovative techniques and software that couple this hardware with open source GRASS GIS, making the system instantly applicable to a wide range of modeling and design problems. Since no other literature on this topic is available, this Book fills a gap for this new technology that continues to grow. Tangible Modeling with Open Source GIS will appeal to advanced-level students studying geospatial science, computer science and earth science such as landscape architecture and natural resources. It will also benefit researchers and professionals working in geospatial modeling applications, computer graphics, hazard risk management, hydrology, solar energy, coastal and fluvial flooding, fire spread, landscape, park design and computer games.

Landscape Architecture

Floodscapes

A Landscape-Driven Approach to Planning and Design

Design Strategies for Drought, Flooding and Contamination

Fresh Water

Sponge City

Landscape architecture manifestos: Constructivist, Apocalyptic and Optimistic

James Davidson Architect (JDA) is a Brisbane-based architectural studio which intimately links design practice, research consultancy and community development activities.Since the beginning, our practice has established a reputation for self-initiated, collaborative projects with a very strong emphasis on design advocacy. We don't specialise in a particular type of work, however we focus on undertaking projects that present an opportunity to turn potential problems into enjoyable challenges. The more complex and difficult the project appears, the more we like it. It is this inherent drive within our practice to give back that helped the ideas in this book come to fruition.

An essential addition to the landscape design library Nature devises ingenious systems for the management and delivery of water in all its phases. No additional infrastructure is required—the water systems are in place, naturally. But once the natural environment has been disrupted by human development, stormwater becomes an issue that requires intervention and ongoing management. Sustainable Stormwater Management, by leading expert Tom Liptan, provides landscape students and professionals with a green approach to landscape design. The hardworking book includes comprehensive information on how to design, install, and maintain a landscape for sustainable stormwater management. It addresses stormwater in the urban environment, relevant environmental and economic policies, and shares case studies of exemplary projects from around the world.

In the wake of an escalating global crisis with water, Water Index is the first critical inventory and analysis of innovative architecture, landscape architecture and design solutions to address the rising, disappearing, and contamination of water. As an ecological disaster complex ferments in contemporary architectural discourse, design competition briefs, conference topics and journal themes optimistically call for designers to reconcile or reimagine the relationship between water, architecture and city. Anxiety is elevated by the onslaught of extreme weather in the form of super-storms, hurricanes, tsunamis, landslides, floods, and droughts whose frequencies and intensities continue to increase. Couple the ever-present exposure to disaster with scientific data that suggests a future characterized by climate change and population growth, and then we have the ingredients for a full-fledged paranoia: the perfect motivation for absurd, expansive and radical building projects. Water Index, examines three hydrological tragedies (flood, contamination, and drought) through strategies that offer methods for controlling, escaping, or adapting to the vital natural resource. Water Index is a collective vision of the future that provides solutions for every continent and spans the disciplines of urban design, landscape architecture and architecture. The book works to create an enduring manual and manifesto for water development and design in the twenty-first century and to acknowledge crisis-initiated design as an important trajectory for architectural discourse. Water Index highlights a moment when designers have linked formal concerns with social, ecological and political agendas offering solutions for expanding global problems.

A Study/Guide to follow in the process of design for the Aire Valley.

The Big Asian Book of Landscape Architecture

Creative Ways to Manage Stormwater

Water Index

Designing the Sustainable Site

Structures of Coastal Resilience

Planning Strategies, Methods and Projects for Urban Rivers

Design With Nature

Floodscapes' tells the multifaceted story of humankind?s relationship with flooding, oscillating between fight and symbiosis. Modern water engineering has turned plains and valleys into fully inhabitable environments. At the same time, they have become rigid and highly vulnerable to climate change. In ground-breaking efforts to prevent future floods, countries are rediscovering adaptation strategies: making room for flooding, redistributing risks and reconsidering the use and legal status of floodplains.00Through historical investigations and through the analysis of six contemporary projects implemented in four European countries, 'Floodscapes' illustrates how flood-mitigation measures can be embedded in local space and culture. Merged with landscape development, agriculture, recreation, nature and even urban growth, river management becomes a design issue again, giving landscape architects and urban designers a prominent role in future transitions.

This book discusses contemporary ideas about planning and design for coastal resilience. It provides an alternative presentation of the issues and solutions and examines strategies that work with natural processes to incorporate water into the urban environment, designing places and structures that can accommodate flooding and water storage.

“Design for Flooding contains considerable useful information for practitioners and students. Watson and Adams fill the void for new thinking...and they advance our ability to create more sustainable, regenerative, and resilient places.” —Landscape Architecture Magazine

Stephen Stimson Associates Landscape Architects is a design firm deeply rooted in planning, design, and construction of landscape in all its forms: garden, street, park, campus, community, and region. The Massachusetts firm is renowned for exceeding design goals with regard to space and use of materials, and Stimson's work often challenges design assumptions by using common materials in uncommon ways.

Architecture, Landscape, and Urban Design for Resilience to Climate Change

Time Saver Standards for Architectural Design 8/E (EBOOK)

Tangible Modeling with Open Source GIS

Technical Data for Professional Practice

Mumbai in an Estuary

Water Futures

Modern Architecture and Climate

This book provides one of the first comprehensive discussions of contemporary landscape architecture practice across the Asian region. Bringing together established designers, writers, and thinkers with those of the new generation, Jillian Walliss and Heike Rahmann explore what it means to design, do business, and think about nature, space, and urbanism with an Asian sensibility. Through a tripartite structure of Continuum, Interruption, and Speed, The Big Asian Book of Landscape Architecture develops ways for conceiving design around these three characteristics that simultaneously influence an Asian practice. A dynamic structure allows readers to dip into content, rather than progress in a linear manner. Each section begins with a positioning essay, which offer theoretical, cultural, and political contextualisation for the more focused academic writing, shorter reflections, practice interviews, photo essays and design projects which are interwoven in a unique graphic design. Featuring over eighty design projects, The Big Asian Book of Landscape Architecture's significance extends well beyond Asia, offering fresh perspectives for a field that has traditionally been dominated by North American and European influences.

The first book to present the work of Surfacedesign, an innovative San Francisco landscape architecture and urban design firm with major public and private projects throughout the Bay Area and in Hawaii, Mexico, and New Zealand. This monograph explores the design philosophy of the three partners of Surfacedesign, who are committed to solutions that emerge from the site itself and challenge conventional approaches to landscape. The work is informed by the vast openness and frontier spirit of the West, expressed in rugged materials and sustainable planting. Surfacedesign focuses on cultivating a sense of connection to the built and natural world, pushing people to engage with the landscape in new ways. The design approach emphasizes and celebrates the unique context and imaginative potential of each project. The studio's process is rooted in asking novel questions and listening to a site and its users, a process that has led to engaging and inspiring landscapes that are rugged, contemporary, and crafted. Twenty-five projects are presented, ranging in scale from the landscape approach to Auckland International Airport in New Zealand to intimate residential gardens in San Francisco and Los Angeles. Featured are Anaha, a Honolulu residential complex overlooking the Pacific Ocean, Land's End Lookout in the Golden Gate National Recreation area, Barnacles, a community gathering space on the Embarcadero, restoration of the Buena Vista Winery in Sonoma, the first commercial winery in California, and the landscape for the Museum of Steel in Monterrey, Mexico, a repurposed foundry that now incorporates the largest green roof in Central America.

Design for FloodingArchitecture, Landscape, and Urban Design for Resilience to Climate ChangeJohn Wiley & Sons

Winner of the Australian Institute of Landscape Architects (AILA) National Excellence Award (Research and Communication) 2017 Winner of the AILA VIC Excellence Award (Research and Communication) 2017 Landscape architecture has a pivotal role in ensuring environmental sustainability through design interventions. This book takes a broad look at strategies and completed projects to provide the reader with a strong understanding of the sustainability challenges being faced by designers today, and potential routes to addressing them. The book covers essential concepts of landscape architecture and environmental sustainability, including: - Ecology, multifunctional landscapes and sensitive intervention - Remediation, cleansing and environmental infrastructure - Social sustainability, design activism and healthy landscapes - Food systems, productive landscapes and transportation - Performance ratings, materials and life cycles Through case studies from around the world and interviews with leading landscape architects and practitioners, this book invites discussion about possible future scenarios, relevant theories and project responses in landscape environmental design. With hundreds of color images throughout the book, and additional study material in the companion website, Joshua Zeunert provides an overview of the multidimensional qualities of landscape sustainability.

Designing a Shifting Landscape

An Introduction

Contemporary Landscape Strategies in Times of Climate Change

Rebuild by Design

Landscape Architecture: A Very Short Introduction

Integrated Design Strategies for Small Scale Sites and Residential Landscapes

Soak

Ken Smith is unquestionably one of the most interesting voices in landscape architecture; his works reflect the intensity and energy of their surroundings and challenge the distinction between landscape and art form. Ken Smith Landscape Architects/Urban Projects focuses on three prominent works in New York City: his East River Project; his work for P.S. 19; and his MoMA rooftop garden. Through Smith's colorful, playful drawings and photographs, the book reveals how each project explores new expressions of landscape design in the city. Ken Smith Landscape Architects/Urban Projects is part of the Source Books in Landscape Architecture series sponsored by Ohio State University. These books present sketches, drawings, models, renderings, working drawings, and photographs. Each book focuses on a recent, important work or works at a level of detail that allows thorough study of the project from its conception to the completion of design and construction.

“Design for Flooding contains considerable useful information for practitioners and students. Watson and Adams fill the void for new thinking...and they advance our ability to create more sustainable, regenerative, and resilient places.” —Landscape Architecture Magazine

Landscape architects should be optimistic for the 21st century. With post-Modern and post-Postmodern design methods, we can attain a leading role in the environmental, design and planning professions. This short eBook began with an article for Landscape Architecture Magazine LAM. Bafflingly, it was rejected for being 'rather dated'. The editors obviously know more than we do about their readers' interests. So we regret the US landscape profession's lack of interest in design theory. Understood understood as 'a set of principles for undertaking a task', we believe that design theory lies, or should lie, at the heart of the landscape architecture profession. The Wikipedia article on post-Postmodernism (in 2015) notes that: In 1995, the landscape architect and urban planner Tom Turner issued a book-length call for a post-postmodern turn in urban planning. Turner criticizes the postmodern credo of “anything goes” and suggests that “the built environment professions are witnessing the gradual dawn of a post-Postmodernism that seeks to temper reason with faith.” The book was City as landscape and the design approach has developed since then and is now illustrated with examples from the authors of this eBook.

No single project or endeavour is immune to the issues that the climate crisis brings. The climate crisis encompasses a broad register of "symptoms" - increased global temperatures and sea-level rise, droughts and extreme bushfire events, salinification and desertification of fertile land, and the list goes on. It reveals and amplifies complex causal relationships that are inherently present and traverse scales, sectors and communities divulging a range of impacts and inequalities. This publication asks designers and academic practitioners to describe their own work through an ecological lens, and then to articulate design approaches for developing new practices in landscape architecture teaching.

Designing Landscape Architectural Education: Studio Ecologies for Unpredictable Futures, the Landscape Architecture Design Studio Companion, serves as a resource for academic practitioners in the preparation and delivery of "design-research studios" and students seeking guidance for design methodologies as a part of their landscape architectural education. It draws on the manifold issues of the climate crisis as a set of drivers to examine the utilisation of a range of innovative design approaches to address the current and future priorities of the discipline. The landscape architecture discipline is evolving rapidly to respond to both a broadening and intensification of changes in the environmental, social and political conditions. These changing conditions require innovation that extend the core competencies of landscape architects. This book addresses two fundamental questions – what are the design competencies required of landscape architects to equip them to deal with the complexities brought forth by contemporary society, and as a result, how could we design the future design studio?

Deccan Traverses

Design for Flooding

Urban Green

European Landscape Architecture

Artful Rainwater Design

Innovative Designs for Reinvented Sites

Landscape Design and the Implications of Flooding

Drawing together case studies from all over Europe, this text explores the relationship between the overall idea of the landscape architecture for a site and the design of details. Examining concept sketches and design development drawings in relation to the details of the design, the book offers a more profound understanding of decision making through all stages of the design process. The book includes the study of the choice of materials and techniques of construction, and explores the cultural and symbolic significance of such choices, as well as questions of environmental sustainability. With projects analyzed and evaluated here that have won international acclaim, or have been awarded national prizes, European Landscape Architecture is a core book in the study and understanding of the subject.

Soak: Mumbai in an Estuary is a unique way of looking at Mumbai's terrain and the history of its making. It presents an alternative visualisation of MumbaI's landscape with extraordinary' artistic and design expertise. Innovative technique in architectural drawing, rare photo-works, maps and models add to the thought-provoking and exciting insights. Proposes twelve design

initiations that work to resolve the problem of flood. Uses approximately 72 historical maps and illustrations and 90 new drawings and photographic works done by the authors themselves. Comes across as a major initiative that will bring awareness of contemporary concerns of cities, using design to create public awareness and involvement. Holds global relevance in the context of sea level rise and climate change. This is a distinctive book in response to the Mumbai flood of 2005. It aspires to address and transform the increasingly shrill language of fear, anxiety and dread that marks our reception of the rains in Mumbai today. The book imagines the sea and the monsoon not as enemies and agents of flood, but as inevitable partners in the shaping of the land and thereby offers a new vocabulary for living with the monsoon and the sea.

"Each time the waters of the mighty Mississippi River overflow their banks, questions arise anew about the battle between "man" and "river". How can we prevent floods and the damage they inflict while maintaining navigational potential and protecting the river's ecology?" "The design of the Mississippi and how it should proceed has long been a subject of controversy. What is missing from the discussion, say the authors of this book, is an understanding of the representations of the Mississippi River. Landscape architect Anuradha Mathur and architect/planner Dilip da Cunha draw together an array of perspectives on the river and show how these different images have played a role in the process of designing and containing the river landscape. Analyzing maps, hydrographs, working models, drawings, photographs, government and media reports, painting, and even folklore, Mathur and da Cunha consider what these representations of the river portray, what they leave out, and why that might be. With original silk screen prints and a selection of maps, the book joins historic, scientific, engineering, and natural views of the river to create an entirely new portrait of the great Mississippi."--BOOK JACKET.Title Summary field provided by Blackwell North America, Inc. All Rights Reserved

The use of innovative new materials is an important trend in landscape architecture today. These materials include biodegradable geotextiles, super-absorbent polymers, and plants that react to changing soil conditions. This book presents the available materials and technologies in the context of practical applications.

Sustainable Stormwater Management

Best Practice in Detailing

Site Planning and Design Handbook, Second Edition

Water Resource Management in Landscape Design

Climates, Landscapes, and Civilizations

Landscape Architecture and Environmental Sustainability

River.Space.Design

This book educates and introduce readers to the ways in which we can adapt to the threat of flooding throughout the built and natural environment. It offers advice on how to better understand the nature of flood risk, whilst highlighting the key approaches and principles necessary for developing community and property-level flood resilience. As a comprehensive and practical manual, this book includes richly illustrated diagrams on a variety of concepts and strategies to use when designing for flood resilience. It is vital resource for anyone looking to adapt to the threat of flood risk. Highly practical handbook for architects, students, engineers, urban planners and other built environment professionals Richly illustrated with practical examples and case studies Draws on research with the Cabinet Office, Environment Agency & Local Community as well as input from academic and industry experts, homeowners and residents of communities at risk of flooding.

Sponge city is a concept originated from the use of 'sponge' to describe the absorpting function of cities. Population researchers in Australia were the first to use the sponge metaphor in expressing the adsorption of polulation from cities. In recent years, the expression is more often used to describe the regulation and storage capacity of cities or field. The theory of 'sponge city' has been applied in several design and planning practices and this book will cover the critical technologies of sponge city, illustrated with case studies. Theoritical issues and practical cases are closely integrated in this book, taking landscape as a new form of infrastrcture and introducing a greener, wiser way of life.

The full-color, practical guide to designing sustainable residential landscapes and small-scale sites "Going green" is no longer a choice; it's a necessity. Developed landscapes have played a significant role in exacerbating the environmental and social problems that threaten humanity; however, they can also be part of the solution. Designing the Sustainable Site: Integrated Design Strategies for Small-Scale Sites and Residential Landscapes gives site designers and landscape architects the tools and information they need to become a driving force in the quest for sustainability. Advocating a regenerative design approach in which built landscapes sustain and restore vital ecological functions, this book guides readers through a design process for new and redeveloped sites that not only minimizes damage to the environment but also actively helps to repair it. Designing the Sustainable Site: Assists designers in identifying and incorporating sustainable practices that have the greatest positive impact on both the project and the surrounding community, within a regional context Uses photographs, sketches, and case studies to provide a comprehensive look at successful green landscape design Illustrates how sustainable practices are relevant and applicable to projects of any size or budget Demonstrates how built environments can protect and restore ecosystem services Explains the multiple and far-reaching benefits that sustainable design solutions can provide Assists project teams in fulfilling credit requirements of green building assessment tools, such as LEED, BREEAM, or SITES With attention to six global environmental challenges—including air pollution, urban flooding and water pollution, water shortages, invasive species, and loss of biodiversity—along with guidance on how to meet these challenges, Designing the Sustainable Site is a practical design manual for sustainable alternatives to small-scale site and residential landscape design.

Artful Rainwater Design has three main parts: first, the book outlines five amenity-focused goals that might be highlighted in a project: education, recreation, safety, public relations, and aesthetic appeal. Next, it focuses on techniques for ecologically sustainable stormwater management that complement the amenity goals. Finally, it features diverse case studies that show how designers around the country are implementing principles of artful rainwater design.

Living Systems

The Tennessee Valley Authority

Retrofitting for Flood Resilience

Landscapes of Change

SURFACEDESIGN

Sustainable Coastal Design and Planning

Design and Persuasion

Essential site planning and design strategies, up-to-date with the latest sustainable development techniques Discover how to incorporate sound environmental considerations into traditional site design processes. Written by a licensed landscape architect with more than 20 years of professional experience, this authoritative guide combines established approaches to site planning with sustainable practices and increased environmental sensitivity. Fully revised and updated, Site Planning and Design Handbook, Second Edition discusses the latest standards and protocols-including LEED. The book features expanded coverage of green site design topics such as water conservation, energy efficiency, green building materials, site infrastructure, and brownfield restoration. This comprehensive resource addresses the challenges associated with site planning and design and lays the groundwork for success. Site Planning and Design Handbook, Second Edition explains how to: Integrate sustainability into site design Gather site data and perform site analysis Meet community standards and expectations Plan for pedestrians, traffic, parking, and open space Use grading techniques to minimize erosion and maximize site stability Implement low-impact stormwater management and sewage disposal methods Manage brownfield redevelopment Apply landscape ecology principles to site design Preserve historic landscapes and effectively utilize vegetation

Since its release in 1946, this has been one of the most widely recognized and respected resources for architects, engineers, and designers, bringing together the knowledge, techniques, and skills of some of the most well-known experts in the field. The new Eighth Edition takes a fresh, visual approach to the information architects need to access quickly, helping them save time and money by assuring they get it right the first time. Readers will find timely, new chapters on building security, natural disaster mitigation, building diagnostics, facility management, and much more.

In the wake of the Great Depression, one of President Franklin Roosevelt's most successful New Deal programs was the formation of the Tennessee Valley Authority, a federal government–owned corporation created in 1933 to revitalize the Tennessee River Valley. This book includes essays by experts in the fields of architecture, landscape architecture, graphic design, industrial design, and the fine arts. Featuring new photography by Richard Barnes, The Tennessee Valley Authority interweaves technical, political, aesthetic, and cultural concerns to complete a missing chapter in the study of modern American architecture and design.

Published by the American Geophysical Union as part of the Geophysical Monograph Series, Volume 198. Climates, Landscapes, and Civilizations brings together a collection of studies on the history of complex interrelationships between humans and their environment by integrating Earth science with archeology and anthropology. At a time when climate change, overpopulation, and scarcity of resources are increasingly affecting our ways of life, the lessons of the past provide multiple reference frames that are valuable for informing our future decisions and action plans. Volume highlights include discussions of multiple connotations of the Anthropocene, landscapes as a link between climate and humans, synoptic approaches to explore large-scale cultural patterns, regional studies for contextualizing cultural complexity, and environmental determinism and social theory. Straddling the fields of Earth sciences, anthropology, and archaeology and presenting research from across several continents, Climates, Landscapes, and Civilizations will appeal to a wide readership among scientists, scholars, and the public at large.

The Making of Bangalore's Terrain

Material Landscapes

Creating Positive Change Through Design

A Source Book in Landscape Architecture

Studio Ecologies for Unpredictable Futures

Design Research for Inland Water Territories

Landscape architecture plays an important role in shaping the places in which we live and work. But what is it? Landscape architects are involved, amongst other things, in the layout of business parks, the reclamation of derelict industrial sites, the restoration of historic city parks, and the siting and design of major pieces of infrastructure such as motorways, dams, power stations, and flood defences, as well as the planning of parks and gardens. Taking a historical perspective, Ian Thompson looks at both the roots of landscape architecture and the people that established it. This Very Short Introduction explores some of the misconceptions about landscape architecture and considers the discipline's origins in landscape gardening. Thompson takes a look at a number of areas, including the influence of Modernism, the difference between landscape design and landscape planning, and the way that planning legislation has driven the growth of the discipline. He also explores contemporary environmentalism, the debate as to whether landscape architecture is an art or a science, landscape architecture in the community, post-industrial projects, and its relationship with ecological urbanism. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Climate change, natural resource use, population shifts, and many other factors have all changed the demands we place on landscape designs. Projects now have to help connect neighborhoods, absorb stormwater, cool urban centers, and provide wildlife habitats. Landscapes of Change examines how these challenges drive the design process, inspire new design strategies, and result in innovative works that are redefining the field of landscape architecture. In 25 case studies from around the world, Roxi Thoren explores how the site can serve as the design generator, describing each project through the physical, material, ecological, and cultural processes that have shaped the site historically and continue to shape these ground-breaking projects.

How climate influenced the design strategies of modernist architects Modern Architecture and Climate explores how leading architects of the twentieth century incorporated climate-mediating strategies into their designs, and shows how regional approaches to climate adaptability were essential to the development of modern architecture. Focusing on the period surrounding World War II—before fossil-fuel powered air-conditioning became widely available—Daniel Barber brings to light a vibrant and dynamic architectural discussion involving design, materials, and shading systems as means of interior climate control. He looks at projects by well-known architects such as Richard Neutra, Le Corbusier, L ú cio Costa, Mies van der Rohe, and Skidmore, Owings, and Merrill, and the work of climate-focused architects such as MMM Roberto, Olgyay and Olgyay, and Cliff May. Drawing on the editorial projects of James Marston Fitch, Elizabeth Gordon, and others, he demonstrates how images and diagrams produced by architects helped conceptualize climate knowledge, alongside the work of meteorologists, physicists, engineers, and social scientists. Barber describes how this novel type of environmental media catalyzed new ways of thinking about climate and architectural design. Extensively illustrated with archival material, Modern Architecture and Climate provides global perspectives on modern architecture and its evolving relationship with a changing climate, showcasing designs from Latin America, Europe, the United States, the Middle East, and Africa. This timely and important book reconciles the cultural dynamism of architecture with the material realities of ever-increasing carbon emissions from the mechanical cooling systems of buildings, and offers a historical foundation for today's zero-carbon design.

Urban riverbanks are attractive locations and highly prized recreational environments. The designs of urban river landscapes must fulfill a broad range of requirements: flood control, open space design, and ecology are as a rule the three dominant themes, and they must often be reconciled within a very restricted space. The river must be understood as a process: governed by changing water levels, shifting seasons, erosion, and sedimentation, the river environment is not a static entity but constantly changing—the design must be flexible and take this into account. This book is the product of a multi-year study that subjected more than fifty Western European projects to a comparative analysis. The result is a systematic catalog of effective strategies and innovative design elements. First, designers and planners are given an overview of the broad and varied spectrum of design possibilities. The book's process-oriented approach is especially helpful where the focus is on long-term, sustainable measures. The publication consists of two linked volumes that enable the reader to consult the systematic catalog and the case study section side by side. The easy-to-navigate structure and an extensive glossary provide further guidance, while the work's highly distinctive design makes it visually appealing as well and invites the reader to leaf through and explore it.

Stephen Stimson Associates

Designing Landscape Architectural Education

Design Before Air Conditioning

An Integrated Water and Flood Management Plan for Enhancing Liveability in South East Queensland

Architecture for the Future

Innovative Materials and Technologies for Landscape Architecture

Mississippi Floods

Structures of Coastal Resilience presents new strategies for creative and collaborative approaches to coastal planning for climate change. In the face of sea level rise and an increased risk of flooding from storm surge, we must become less dependent on traditional approaches to flood control that have relied on levees, sea walls, and other forms of hard infrastructure. Instead, authors Catherine Seavitt Nordenson, Guy Nordenson, and Julia Chapman reimagine how coastal planning might better serve communities grappling with a future of uncertain environmental change. They offer inspiring insights into new approaches to design, engineering, and planning, envisioning an ecological approach to developing adaptive and resilient futures for coastal areas.

NULL

Sustainable design is booming, but the men and women dedicated to reducing their carbon impact have lost sight of what they are trying to save: the natural world. Author Neil Chambers has been at the forefront of cutting-edge, sustainable architecture for years, and Urban Green is his revolutionary vision for bringing the power of the conservation and design movements together. He advocates looking to nature for the missing components of the green revolution: oysters that can clean water at up to 5 liters an hour; beavers that reshape their environments while simultaneously enriching ecosystems; and mountains that offer a new way of imagining how a city could be built. By designing our homes and cities in harmony with the natural world, we can take the next step in the sustainable revolution.

Ken Smith Landscape Architects Urban Projects

A Guide to Building & Community Design