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Eco Structures "O'Reilly
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The combined challenges of health, comfort, climate change and energy security cross the boundaries of traditional building disciplines. This authoritative collection, focusing mostly on energy and ventilation, provides the current and next generation of building engineering professionals with what they need to work closely with many disciplines to meet these challenges. A Handbook of Sustainable Building Engineering covers: how to design, engineer and monitor a building in a manner that minimises the emissions of greenhouse gases; how to adapt the environment, fabric and services of existing

and new buildings to climate change; how to improve the environment in and around buildings to provide better health, comfort, security and productivity; and provides crucial expertise on monitoring the performance of buildings once they are occupied. The authors explain the principles behind built environment engineering, and offer practical guidance through international case studies.

Green Building

dpunkt.verlag

Reyner Banham was a pioneer in arguing that technology, human needs, and environmental concerns must be considered an integral part of architecture. No historian before him

had so systematically explored the impact of environmental engineering on the design of buildings and on the minds of architects. In this revision of his classic work, Banham has added considerable new material on the use of energy, particularly solar energy, in human environments. Included in the new material are discussions of Indian pueblos and solar architecture, the Centre Pompidou and other high-tech buildings, and the environmental wisdom of many current architectural vernaculars.

Earth Architecture

"O'Reilly Media, Inc."

The tropical belt - where large areas of South East Asia, India, Africa and parts of both

North and South America are located - forms the biggest landmass in the world and has one of the highest numbers of rapidly developing cities. Coincidentally, architecture in these regions shares common problems, the most easily identifiable being the tropical conditions of climate and natural environment. The context for architecture here is fraught with conflicts between tradition and modernization, massive influx of rural poor into urban areas, poorly managed rapid urban development as well as the cultural and social strain of globalization. Many local and overseas architects, planners and city fathers are interested in the social

and environmental dimensions of these areas that contribute towards short term solutions and long term sustainable developments. This book, developed from the first conference of the International Network for Tropical Architecture, supplies a wealth of information from experts worldwide covering the cultural, environmental and technical aspects of thinking, researching and designing for the tropics.

**Necessary
Architecture**

Routledge
Continuous
Architecture provides a broad architectural perspective for continuous delivery, and describes a new architectural approach that supports and enables it. As the pace

of innovation and software releases increases, IT departments are tasked to deliver value quickly and inexpensively to their business partners. With a focus on getting software into end-users hands faster, the ultimate goal of daily software updates is in sight to allow teams to ensure that they can release every change to the system simply and efficiently. This book presents an architectural approach to support modern application delivery methods and provide a broader architectural perspective, taking architectural concerns into account when deploying agile or continuous delivery approaches. The authors explain how to solve the challenges of

implementing continuous delivery at the project and enterprise level, and the impact on IT processes including application testing, software deployment and software architecture. Covering the application of enterprise and software architecture concepts to the Agile and Continuous Delivery models Explains how to create an architecture that can evolve with applications Incorporates techniques including refactoring, architectural analysis, testing, and feedback-driven development Provides insight into incorporating modern software development when structuring teams and organizations

Tropical Sustainable Architecture McGraw-Hill Companies
Salary surveys worldwide regularly place software architect in the top 10 best jobs, yet no real guide exists to help developers become architects. Until now. This book provides the first comprehensive overview of software architecture's many aspects. Aspiring and existing architects alike will examine architectural characteristics, architectural patterns, component determination, diagramming and presenting architecture, evolutionary architecture, and many other topics. Mark Richards and Neal Ford—hands-on practitioners who have

taught software architecture classes professionally for years—focus on architecture principles that apply across all technology stacks. You'll explore software architecture in a modern light, taking into account all the innovations of the past decade. This book examines: Architecture patterns: The technical basis for many architectural decisions Components: Identification, coupling, cohesion, partitioning, and granularity Soft skills: Effective team management, meetings, negotiation, presentations, and more Modernity: Engineering practices and operational approaches that have changed radically in the past few years Architecture as an

engineering discipline: Repeatable results, metrics, and concrete valuations that add rigor to software architecture New Organic Architecture Routledge This book is a concise review of the assumptions, beliefs, goals and bodies of knowledge that underlie the endeavour to design environmentally sustainable buildings and other built developments. The Return of Nature University of Chicago Press Royal Architectural Institute of Canada (RAIC) President's Medal Award (multi-media representation of architecture). Canada's most distinguished architectural critics and scholars offer fresh

insights into the country's unique modern and contemporary architecture. Beginning with the nation's centennial and Expo 67 in Montreal, this fifty-year retrospective covers the defining of national institutions and movements: • How Canadian architects interpreted major external trends • Regional and indigenous architectural tendencies • The influence of architects in Canada's three largest cities: Toronto, Montreal, and Vancouver Co-published with Canadian Architect, this comprehensive reference book is extensively illustrated and includes fifteen specially commissioned essays.

Canadian Modern Architecture Routledge
The Architecture of Persistence argues that continued human use is the ultimate measure of sustainability in architecture, and that expanding the discourse about adaptability to include continuity as well as change offers the architectural manifestation of resilience. Why do some buildings last for generations as beloved and useful places, while others do not? How can designers today create buildings that remain useful into the future? While architects and theorists have offered a wide range of ideas about building for change, this book focuses on persistent architecture: the material, spatial,

and cultural processes that give rise to long-lived buildings. Organized in three parts, this book examines material longevity in the face of constant physical and cultural change, connects the dimensions of human use and contemporary program, and discusses how time informs the design process. Featuring dozens of interviews with people who design and use buildings, and a close analysis of over a hundred historic and contemporary projects, the principles of persistent architecture introduced here address urgent challenges for contemporary practice while pointing towards a more sustainable built environment in the future. The

Architecture of Persistence: Designing for Future Use offers practitioners, students, and scholars a set of principles and illustrative precedents exploring architecture's unique ability to connect an instructive past, a useful present, and an unknown future.

Architecture and Systems Ecology
Ashgate Publishing, Ltd.

This volume presents the discipline's best thinking on sustainability in written, drawn, and built form, drawing on over fifteen years of peer-reviewed essays and national design awards published by the Association of Collegiate Schools of Architecture (ACSA). Providing a primer on sustainability, useful to

teachers and students alike, the selected essays address a broad range of issues. Combined with design projects that highlight issues holistically, they promote an understanding of the principles of sustainability and further the integration of sustainable methods into architectural projects. Using essays that alternately revise and clarify twentieth century architectural thinking, *The Green Braid* places sustainability at the centre of excellent architectural design. No other volume addresses sustainability within the context of architectural history, theory, pedagogy and design, making this book an ideal source for architects in

framing their practices, and therefore their architectural production, in a sustainable manner.

The Greening of Architecture

Routledge

The integration of nature in architecture is a key concern of sustainability. However, all too often sustainable design is reduced to improving the energetic performance of buildings and the ornamental application of natural green. *Dense + Green* explores new architectural typologies that emerge from the integration of green components such as sky terraces, vertical parks and green facades, in high-density buildings. The book describes green strategies in a comparison across

different design tasks and climate conditions. In-depth case studies on the most relevant building types, consistently presented with analytical drawings made exclusively for this book, are complemented by expert essays that demonstrate the current paradigm shift in the sustainable urban environment. From the Contents: • Dense + Green Building Types, by Thomas Schröpfer, architect, Singapore University of Technology and Design • Dense + Green Building Technology, by Atelier Ten, environmental design consultants and building services engineers, New York, NY • Dense + Green Landscape Design, by

Herbert Dreiseitl, landscape architect, Atelier Dreiseitl/Rambøll Liveable Cities Lab, Überlingen/Singapore/Portland, OR • Dense + Green Botanical Design, by Jean Yong, plant eco-physiologist, Singapore University of Technology and Design • Dense + Green Urbanism, by Kees Christiaanse, urban planner, ETH Zurich • 25 in-depth case studies from Europe, Asia and the USA • Practice Reports by Foster + Partners, WOHA, Ken Yeang, MVRDV and others **Dense + Green** Dom Pub The evolution of sustainability, with a practical framework for integration Regenerative Development and Design takes

sustainability to the next level, and provides a framework for incorporating regenerative design principles into your current process. The Regenes Group is a coalition of experienced design, land-use, planning, business, and development professionals who represent the forefront of the movement; in this book, they explain what regenerative development is, how and why it works, and how you can incorporate the fundamental principles into your practice. A clear, focused framework shows you how to merge regenerative concepts with your existing work, backed by numerous examples that guide practical

application while illustrating regenerative design and development in action. As the most comprehensive and systemic approach to regenerative development, this book is a must-have resource for architects, planners, and designers seeking the next step in sustainability. Regenerative design and development positions humans as co-creative and mutually-evolving participants in an ecosystem—not just a built environment. This book describes how to bring that focus to your design from the earliest stages. Understand the fundamentals of regenerative design and development. Learn how

regenerative development contributes to sustainability Integrate regenerative development concepts into practice Examine sample designs that embody the regenerative concept To create a design with true sustainability, considerations must extend far beyond siting, materials, and efficiency. Designers must look at the place, it's inhabitants, and the purpose—the whole living ecosystem—and proceed with their work from that more humbling perspective. The finished product should itself be an ecosystem and sustainable economy, which is the root of the regenerative development approach. Sustainability has

evolved, and the designer's responsibility has increased in kind. Regenerative Development and Design provides an authoritative resource for those ready to take the next step forward. Continuous Architecture in Practice John Wiley & Sons Update Your Architectural Practices for New Challenges, Environments, and Stakeholder Expectations "I am continuously delighted and inspired by the work of these authors. Their first book laid the groundwork for understanding how to evolve the architecture of a software-intensive system, and this latest one builds on it in some wonderfully actionable ways." -- Grady Booch, Chief

Scientist for Software Engineering, IBM Research Authors Murat Erder, Pierre Pureur, and Eoin Woods have taken their extensive software architecture experience and applied it to the practical aspects of software architecture in real-world environments. Continuous Architecture in Practice provides hands-on advice for leveraging the continuous architecture approach in real-world environments and illuminates architecture's changing role in the age of Agile, DevOps, and cloud platforms. This guide will help technologists update their architecture practice for new software challenges. As part of the Vaughn Vernon

Signature Series, this title was hand-selected for the practical, delivery-oriented knowledge that architects and software engineers can quickly apply. It includes in-depth guidance for addressing today's key quality attributes and cross-cutting concerns such as security, performance, scalability, resilience, data, and emerging technologies. Each key technique is demonstrated through a start-to-finish case study reflecting the authors' deep experience with complex software environments. Key topics include: Creating sustainable, coherent systems that meet functional requirements and the quality attributes stakeholders care

about Understanding team-based software architecture and architecture as a "flow of decisions"

Understanding crucial issues of data management, integration, and change, and the impact of varied data technologies on architecture

Architecting for security, including continuous threat modeling and mitigation Architecting for scalability and resilience, including scaling microservices and serverless environments Using architecture to improve performance in continuous delivery environments Using architecture to apply emerging technologies successfully Register your book for convenient access to

downloads, updates, and/or corrections as they become available. See inside book for details.

The Green Braid

Taylor & Francis
Filling a gap in existing literature on sustainable design, this new guide introduces and illustrates sustainable design principles through detailed case studies of sustainable buildings in Europe, North America and Australia. The guide will provide the reader with a deeper understanding of the design issues involved in delivering sustainable buildings, and giving detailed description of the process of integrating principles into practice. Approximately one hundred case studies of sixty buildings, ranging from small

dwellings to large commercial buildings, and drawn from a range of countries, demonstrate best current practice. The sections of the book are divided into design issues relating to sustainable development, including site and ecology, community and culture, health, materials, energy and water. With over 400 illustrations, this highly visual guide will be an invaluable reference to all those concerned with architecture and sustainability issues.

Elements of Sustainable

Architecture Common Ground Publishing
New Organic Architecture is a manifesto for building in a way that is both aesthetically pleasing and kinder to the

environment. It illuminates key themes of organic architects, their sources of inspiration, the roots and concepts behind the style, and the environmental challenges to be met. The organic approach to architecture has an illustrious history, from Celtic design, Art Nouveau, Arts and Crafts, to the work of Antoni Gaudí and Frank Lloyd Wright. Today there is a response to a new age of information and ecology; architects are seeking to change the relationship between buildings and the natural environment. In the first part of his book, David Pearson provides a history and assessment of organic architecture. The second part comprises statements from thirty

architects from around the world whose work is based on natural or curvilinear forms rather than the straight-line geometrics of modernism. Each statement is accompanied by full-color illustrations of one or several of the architects' built projects.

Advancements in Sustainable Architecture and Energy Efficiency

O'Reilly Media

The author of this book aims to encourage an awareness of sustainability as it is implemented across all areas of planning and design, and the ability to think and act on this knowledge. This book will explore in genuine depth the sustainable strategies that could be applied, along with the practical work of

key figures in the built environment, setting these against historical experiences and traditional cultures. It also aims to revive the discourse around these subjects.

Achieving this will require the involvement of architects and structural, energy and environmental engineers, construction businesses and specialists, research institutes and universities. The five chapters and 333 show-cased projects reflect important stages in the architectural and engineering-based design process, stages which need to be addressed when dealing with sustainable strategies in the built environment.

Sustainable Software Architecture Routledge
 "With this book, Robin Guenther and Gail Vittori show us how critical our green building mission is to the future of human health and secures a lasting legacy that will continue to challenge and focus the green building movement, the healthcare industry, and the world for years to come."
 —From the Foreword by Rick Fedrizzi, President, CEO and Founding Chair, U.S. Green Building Council
INDISPENSABLE REFERENCE FOR THE FUTURE OF SUSTAINABLE HEALTHCARE DESIGN
 Written by a leading healthcare architect named one of Fast Company's 100 most creative people in business and a

sustainability expert recognized by Time magazine as a Green Innovator, *Sustainable Healthcare Architecture, Second Edition* is fully updated to incorporate the latest sustainable design approaches and information as applied to hospitals and other healthcare facilities. It is the essential guide for architects, interior designers, engineers, healthcare professionals, and administrators who want to create healthy environments for healing. Special features of this edition include: 55 new project case studies, including comparisons of key sustainability indicators for general and specialty hospitals, sub-acute and ambulatory care facilities, and mixed-

use buildings New and updated guest contributor essays spanning a range of health-focused sustainable design topics Evolving research on the value proposition for sustainable healthcare buildings Profiles of five leading healthcare systems and their unique sustainability journeys, including the UK National Health Service, Kaiser Permanente, Partners HealthCare, Providence Health & Services, and Gundersen Health System Focus on the intersection of healthcare, resilience, and a health promotion imperative in the face of extreme weather events Comparison of healthcare facility-focused green building rating systems from around the world

Sustainable Healthcare Architecture, Second Edition is an indispensable resource for anyone interested in the design, construction, and operation of state-of-the-art sustainable healthcare facilities.

Sustainable Healthcare

Architecture Park Publishing (WI)

The fourteen essays in The Continuous City offer a survey of Lerup's thinking on identity and monumentality and the relationship between nature and culture. His interest and reflections focus, among other things, on Roberto Burle Marx, a founder of modern landscape design; the 'dancing floors' of Rem Koolhaas's Seattle Central Library; Herzog & de Meuron's 1111

Lincoln Road project in Miami Beach; and the character of urban icons like Coop Himmelb(l)au's Dalian International Conference Center. *Sustainability in Architecture and Urban Design* Routledge

2000 years ago the roman architect Marcus Vitruvius Pollio wrote the ten books on architecture establishing the concept of the pattern book offering design principles and solutions that is still referred to in every architect's education. A Green Vitruvius is intended as a green pattern book for today. Now fully updated, this well established textbook provides advice suitable for undergraduate and post graduate students on the integration of

sustainable practice into the design and construction process, the issues to be considered, the strategies to be adopted, the elements of green design and design evaluation within the process. Classic design elegance is found in the holistic clear solution.

The Architecture of Persistence White Star

For sustainable architecture to become a reality, the way we design buildings needs to change. Many architects are concerned that sustainable technologies may interfere with a building's aesthetic appearance, and so these are often 'added on' once the design process is complete. Elements of

Sustainable Architecture solves this dilemma by helping students to develop the design skills they need to create sustainable buildings – ensuring that ecological considerations are applied throughout the design process. Restoring the primacy of aesthetics and creativity to sustainable design, the book focuses on strategies that have the greatest impact on building design. It also shows the influence of sustainability considerations on choices about aspects such as composition, form, space, tectonics, materials, colour, textures, proportion and position. Specifically designed to offer a new way of understanding

architecture, the book: introduces students to the basic principles and methods of sustainable design; features current examples and inspiring case studies to support learning step by step; presents information in a visually appealing, intuitive, easy-to-understand way; includes over 500 high-quality colour diagrams, drawings, sketches and photographs. A clear, visual introduction to creating aesthetically beautiful and sustainable buildings, this is essential reading for students in sustainable architecture courses. **A Handbook of Sustainable Building Design and Engineering**
Routledge
The Return of Nature

asks you to critique your conception of nature and your approach to architectural sustainability and green design. What do the terms mean? Are they de facto design requirements? Or are they unintended design replacements? The book is divided into five parts giving you multiple viewpoints on the role of the relations between architecture, nature, technology, and culture. A detailed case study of a built project concludes each part to help you translate theory into practice. This holistic approach will allow you to formulate your own

theory and to adjust your practice based on your findings. Will you provoke change, design architecture that responds to change, or both? Coedited by an architect and a historian, the book features new essays by Robert Levit, Catherine Ingraham, Sylvia Lavin, Barry Bergdoll, K. Michael Hays, Diane Lewis, Andrew Payne, Mark Jarzombek, Jean-Francois Chevrier, Elizabeth Diller, Antoine Picon, and Jorge Silvetti. Five case studies document the work of MOS Architects, Michael Bell Architecture, Steven Holl Architects, George L. Legendre, and Preston Scott Cohen.

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