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# Dense Green Innovative Building Types For Sustain

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Green Building Illustrated  
 Urban Green  
 Dense + Green  
 Dense + Green  
 Handbook of Research on Building Inclusive Global Knowledge Societies for Sustainable Development  
 The Costs of Climate Change Mitigation Innovations  
 Sustainable Residential Development  
 The Green Building Revolution  
 Building an Entrepreneurial and Sustainable Society  
 Growing Compact  
 Rebuilding Earth  
 Landscape Research-I  
 Retrofitting for Optimal Energy Performance  
 Research Anthology on Environmental and Societal Well-Being Considerations in Buildings and Architecture  
 Dense + Green Cities  
 Architectural Research Addressing Societal Challenges  
 Sustainable Construction  
 Green Building  
 The Routledge Handbook on Greening High-Density Cities  
 Moving to Sustainable Buildings:  
 Ecoarchitecture  
 Research and Innovation Forum 2023  
 Marketing Green Buildings  
 Soft City  
 Dense and Green Building Typologies  
 Basics Water Cycles  
 Green innovation and industrial ecosystem reconstruction in achieving environmental sustainability  
 Singapore's Park System Master Planning  
 A Transition to Sustainable Housing  
 Creating Built Environments  
 Handbook of Green Building Design and Construction  
 Designing High-Density Cities  
 From the Ground Up  
 Dense and Green Building Typologies  
 Introduction to Sustainability  
 Innovation in Urban and Regional Planning  
 Green Innovation, Sustainable Development, and Circular Economy  
 Green Buildings Pay  
 Green Building  
 The Routledge Companion to Ecological Design Thinking

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 Building Types For  
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## PARKER BRIGGS

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Green Building Illustrated John Wiley & Sons  
 In his *Moving to Sustainable Buildings. Paths to Adopt Green Innovations in Developed Countries*, Umberto Berardi explores the transition of the construction sector to sustainable building through the adoption of green innovations. Applying methods ranging from theoretical discussions to interviews and field studies, Berardi describes how organisational models among stakeholders are changing as the sector moves towards a green economy. Berardi's book should prove valuable to engineers, architects, environment researchers and policy

makers alike, as it successfully weaves together different aspects of green building to create a multidimensional matrix through which sustainable architecture can be understood. Umberto Berardi, an assistant professor at the Worcester Polytechnic Institute (MA, USA), teaches courses on sustainable construction, architectural engineering systems and building physics. He was awarded an MSc from the Politecnico di Bari, an MSc from the University of Southampton (UK) and a PhD from the Scuola Interpolitecnica in Italy. His research areas are related to building acoustics, sustainable constructions and energy saving technologies for buildings. Berardi is also a passionate pianist and a strong proponent of interdisciplinary cooperation between the arts and engineering.

*Urban Green* Walter de Gruyter  
 This open access book explores the environmental, social, and financial challenges of housing provision, and the urgent need for a sustainable housing transition. The authors explore how market failures have impacted the scaling up of sustainable housing and the various policy attempts to address this. Going beyond an environmental focus, the book explores a range of housing-related challenges including social justice and equity issues. Sustainability transitions theory is presented as a framework to help facilitate a sustainable housing transition and a range of contemporary case studies are explored on issues including high performing housing, small housing, shared housing, neighbourhood-scale housing, circular housing, and innovative financing for housing. It is an important new

resource that challenges policy makers, planners, housing construction industry stakeholders, and researchers to rethink what housing is, how we design and construct it, and how we can better integrate impacts on households to wider policy development.

*Dense + Green* Butterworth-Heinemann  
In which ways does a "green building" contribute to the ecology of its surroundings? And how can ecologically designed urban districts, with their green and blue networks, link up with the elements and technologies of building design? All dimensions of "green building" are investigated in this book in an effort to understand and evaluate some of the most recent and innovative Dense+Green Cities in Asia, the Americas and Europe.  
*Dense + Green* Springer  
FULLY ILLUSTRATED, UPDATED GUIDE TO THE STRATEGIC DESIGN OF GREEN BUILDINGS In the tradition of *Building Construction Illustrated*, Francis D.K. Ching and Ian M. Shapiro offer a fully illustrated guide to the theory and practice of sustainable design. This guide provides architects, designers, and builders in the green design professional community a framework and detailed strategies for designing substantively green buildings. With a focus on sustainable sites, approaching and reaching net-zero energy, low and zero-water usage, minimum-impact materials and superior indoor environmental quality, this guide explains why we need to build green, as well as green building theory and advancements in the industry. This Second Edition includes: All-new case studies featuring geographically diverse buildings with proven zero energy performance Expanded coverage of zero energy building design, as well as zero water and zero waste buildings Practical guidance for the schematic design of high-performance buildings, heating and hot water system selection, building envelope details, and integrating renewable energy Advanced strategies, such as the concept of shape efficiency, and the optimal location for stairwells in buildings Additional strategies for affordability in green design and construction Updated references to the latest codes and standards This Second Edition of *Green Building Illustrated* is an excellent resource for professionals, students and those interested in the design and construction of sustainable buildings.

*Handbook of Research on Building Inclusive Global Knowledge Societies for Sustainable Development* Livre de Lyon  
*Growing Compact: Urban Form, Density and Sustainability* explores and unravels

the phenomena, links and benefits between density, compactness and the sustainability of cities. It looks at the socio-climatic implications of density and takes a more holistic approach to sustainable urbanism by understanding the correlations between the social, economic and environmental dimensions of the city, and the challenges and opportunities with density. The book presents contributions from internationally well-known scholars, thinkers and practitioners whose theoretical and practical works address city planning, urban and architectural design for density and sustainability at various levels, including challenges in building resilience against climate change and natural disasters, capacity and integration for growth and adaptability, ageing, community and security, vegetation, food production, compact resource systems and regeneration.

**The Costs of Climate Change Mitigation Innovations** Taylor & Francis  
Capitalize on a Comprehensive New Process for Planning and Designing Sustainable Green Communities Written by internationally renowned architect Avi Friedman, *Sustainable Residential Development* equips you with a much-needed process and examples for planning and designing green communities. This landmark resource explains the principles of green building and how to apply them to residential development, presenting guidelines for creating communities that balance social, economic, and environmental needs. Filled with plans, elevations, and vignettes, the book shows how to incorporate wind direction, sun exposure, tree preservation, topography, and public spaces into site plan. It also shows how to design high-density neighborhoods...apply green design and construction principles by using local materials and techniques, solar power, waste management, and water efficiency...as well as rehabilitate neighborhoods while respecting their heritage. *Sustainable Residential Development* features: Expert guidelines for planning and designing communities that balance social, economic, and environmental needs A wealth of international and U.S. case studies and examples that illustrate the principles of sustainable community design Over 100 downloadable plans and elevations that offer a head start for planning and designing sustainable communities Inside this *Green Planning and Design Guide*:  
• Defining and Applying Principles of Sustainability in Neighborhood Development  
• Learning Lessons from the Past: The Rise of Suburbia  
• Site Selection

and Analysis • Strategies for High-Density Neighborhoods: The New Urbanism • Planning, Design, and Construction Principles for Sustainability • The Urban Renewal Process and Architectural Heritage • Balancing Environmental, Cultural, and Economic Needs: A Framework for Greener Neighborhoods  
**Sustainable Residential Development**  
John Wiley & Sons

Built environments are complex, emergent, systemic, and require contextual analysis. They should be understood before reconsidering how professionals and researchers of the built environment are educated and trained to reduce the gap between knowledge, practice and real-world circumstances. There is an urgent need to rethink the role of policy makers, researchers, practitioners and laypeople in the construction, renovation and reuse of the built environment in order to deal with numerous environmental/ecological, economic/financial and social/ethical challenges of providing a habitat for current and future generations in a world of continual change. These challenges are too complex to be dealt with only by one discipline or profession. Combinations of different types of knowledge, knowing in praxis and tacit knowledge are needed. This book presents and illustrates recent innovative contributions with case studies focusing on five strategic domains and the interrelations between them. These transdisciplinary contributions apply concepts, methods and tools that facilitate convergence and concerted action between participants collaborating in policy definition and project implementation. The methods and tools include experiments in living-labs, prototypes on site and virtual simulations, as well as participatory approaches including citizen science, the development of alternative scenarios, and visioning plausible futures.

*The Green Building Revolution* CRC Press  
Knowledge and information have significant impacts on individuals' daily lives and activities, especially when referring to the new economy and the global knowledge societies. However, the COVID-19 pandemic has caused massive disruptions in the creation of the vital inclusive global information society. Due to this change, further study on the current difficulties and best practices of creating global knowledge societies is required in order to ensure communities can continue to advance and information is shared appropriately. *The Handbook of Research on Building Inclusive Global Knowledge Societies for Sustainable*

Development aims at providing an updated view of the newest trends, novel practices, and latest tendencies concerning building inclusive global knowledge societies for sustainable development while focusing on the benefits and the opportunities derived from the new economy and the global knowledge societies. Covering topics such as smart cities, food security, and climate change, this major reference work is ideal for policymakers, government officials, business owners, managers, academicians, scholars, researchers, practitioners, instructors, and students.

*Building an Entrepreneurial and Sustainable Society* North Atlantic Books

**SUSTAINABLE CONSTRUCTION DISCOVER THE LATEST EDITION OF THE LEADING TEXTBOOK ON SUSTAINABLE CONSTRUCTION AND GREEN BUILDING** In the newly revised Fifth Edition of *Sustainable Construction: Green Building Design and Delivery*, the late Dr. Charles J. Kibert delivers a rigorous overview of the design, construction, and operation of high-performance green buildings. In the leading textbook on sustainable building, the author provides thoroughly updated information on everything from materials selection to building systems. Updated to reflect the latest building codes and standards, including LEED v4.1, the book offers readers coverage of international green building codes and standards, biomimicry, ecological design, focused assessment systems like SITES, EDGE, WELL, and Fitwell, and sustainable construction resilience. Readers will learn to think critically about all aspects of green building and benefit from the inclusion of: A thorough introduction to sustainable construction, including the landscape for green buildings, sustainable development, sustainable design, and the rationale for high-performance green buildings An exploration of the foundations of green buildings, including biomimicry and ecological design, basic concepts and vocabulary, and the green building movement Practical discussions of ecological design, including a historical perspective, contemporary ecological design In-depth examinations of high-performance green building assessment, including focused assessment systems and international building assessment systems Perfect for upper level undergraduate and graduate level students in architecture, architectural technology, civil engineering, and construction management, *Sustainable Construction* is also an indispensable resource for anyone studying for the LEED Green Associate exam, as well as industry

professionals and building owners.

*Growing Compact* Island Press

It is said that the history of modern architecture can be observed through the evolution of the single-family home. Over generations, each has hoped to improve on the last, rethinking and reinventing this seemingly simple building type. At certain historic moments in the discourse, new ideas about domesticity have given form to radically different configurations of home and community. Current emphasis on sustainability presents a unique opportunity to design affordable houses that respond to specific economic, social, and environmental challenges. In *From the Ground Up* editor Peggy Tully presents the results of an international competition to create new models for affordable high-performance green homes in urban residential neighborhoods. Developed for a vacant infill site in Syracuse's Near Westside, these ambitious projects offer an array of innovative designs that provide a new vision for once-vital urban residential neighborhoods and well-designed energy-efficient homes throughout the United States.

*Rebuilding Earth* Frontiers Media SA

The "green building revolution" is happening right now. This book is its chronicle and its manifesto. Written by industry insider Jerry Yudelson, *The Green Building Revolution* introduces readers to the basics of green building and to the projects and people that are advancing this movement. With interviews and case studies, it does more than simply report on the revolution; it shows readers why and how to start thinking about designing, building, and operating high performance, environmentally aware (LEED-certified) buildings on conventional budgets. Evolving quietly for more than a decade, the green building movement has found its voice. Its principles of human-centered, environmentally sensitive development have reached a critical mass of architects, engineers, builders, developers, professionals in government, and consumers. Green buildings are showing us how we can have healthier indoor environments that use far less energy and water than conventional buildings do. The federal government, eighteen states, and nearly fifty U.S. cities already require new public buildings to meet "green" standards. According to Yudelson, this is just the beginning. *The Green Building Revolution* describes the many "revolutions" that are taking place today: in commercial buildings, schools, universities, public buildings, health care institutions, housing, property management, and neighborhood design.

In a clear, highly readable style, Yudelson outlines the broader "journey to sustainability" influenced by the green building revolution and provides a solid business case for accelerating this trend. Illustrated with more than 50 photos, tables, and charts, and filled with timely information, *The Green Building Revolution* is the definitive description of a major movement that's poised to transform our world.

*Landscape Research-I* Island Press

*Introduction to Sustainability* is the first major textbook to review major themes in the cutting-edge field of sustainability. The book is suitable for introductory interdisciplinary courses on sustainability, as well as those in the fields of geography, geology, sociology, planning, political science, and anthropology. Brinkmann's book allows students to see the world in new ways while also encouraging them to become part of the change needed to ensure the long-term sustainability of the planet. The text includes material on the development of the field of sustainability; environmental sustainability issues like water, food, and energy; social sustainability themes like environmental justice and transportation; and economic sustainability topics like green businesses and economic development. The book concludes with a chapter on sustainability issues in college and universities. Brinkmann intersperses many fascinating case studies and text boxes that encourage students to deeply explore the material. This is a book that not only organizes the complex field of sustainability, but also encourages students to take action to make the world a better place.

*Retrofitting for Optimal Energy Performance* Birkhäuser

In this book, academics, policy makers, developers, architects and landscape architects provide a systematic review of the environmental, social, economic and design benefits of dense and green building types in high-density urban contexts and discuss how these can support higher population densities, higher standards of environmental sustainability and enhanced live ability in future cities.

*Research Anthology on Environmental and Societal Well-Being Considerations in Buildings and Architecture* Routledge

*Handbook of Green Building Design and Construction: LEED, BREEAM, and Green Globes, Second Edition* directly addresses the needs of building professionals interested in the evolving principles, strategies, and concepts of green/sustainable design. Written in an easy to understand style, the book is

updated to reflect new standards to LEED. In addition, readers will find sections that cover the new standards to BREEAM that involve new construction Infrastructure, data centers, warehouses, and existing buildings. Provides vital information and penetrating insights into three of the top Green Building Codes and Standards applied Internationally Includes the latest updates for complying with LEED v4 Practices and BREEAM Presents case studies that draws on over 35 years of personal experience from across the world

**Dense + Green Cities** Island Press

The integration of building services is an important aspect of architectural planning. The conceptual design of supply systems and cycles within the building demands a solid grasp of the relationships that underpin the supply and disposal of the element water. The focus here is on relations among the individual elements of the cycle, from the supply of drinking water, consumers inside the building, and the disposal of wastewater to the rehabilitation of wastewater. The subject of water conservation is present throughout as an overarching framework. Topics: Requirements for drinking water Supply connections and distribution networks in the building Wastewater disposal and use Dealing with rainwater Resource-friendly approaches

**Architectural Research Addressing Societal Challenges** Springer Science & Business Media

Ken Yeang is internationally recognised as the leading proponent of ecological design in architecture. In 2008, he was tipped by The Guardian to be one of the '50 people who could save the planet'. He has built over 200 buildings globally and published numerous books advocating an environmentally responsive approach to design. He is probably best known as the inventor of the green skyscraper; it was his innovative idea to incorporate bioclimatic features in a high-density building type. It is for this and his ecological urban design that he has gained a uniquely influential position within architecture. Though he has authored many books about his work and his ideas, this is the first definitive book to cover his forty-year career. Featuring 22 of Yeang's most significant projects, *EcoArchitecture* begins with his earliest work on environmental design, executed as a student at the Architectural Association and then a Phd student at Cambridge in the early 1970s, and with his most recent projects with Llewelyn Davies Yeang in London and TRHY in Kuala Lumpur. A preface by Lord Foster and an introductory essay by Professor John Frazer provide the

full context of Yeang's thinking. The main text by contributing editor of *Architectural Record*, Sara Hart, and lecturer and freelance author, David Littlefield, provide some critical reflection on the development of his work.

*Sustainable Construction* Springer

The notion that humanity may be too late to alter climate change could potentially lead to fear and therefore the advocacy of implementing radical strategies and/or hastening the execution of certain measures to the extreme. There is evidence that extensive and intensive implementation of some climate change solutions can significantly alter the environment and ecosystems in unintended ways. For example, the microclimate of a field in the proximity and downstream of a closely packed array of wind turbines can be noticeably altered by the modified lower atmospheric fluxes caused by the turbines, which can then negatively affect crop yields. Additionally, some studies have found that large-scale solar fields can result in the modulation of atmospheric circulation, leading to changes in regional precipitation. The *Costs of Climate Change Mitigation Innovations: A Pragmatic Outlook* provides a forum for discussion on the long-term consequences of various climate strategies. It promotes our striving toward minimizing the potential negative impact of new interventions by performing objective, holistic analyses. The bottom line is that we do not want today's solutions to become tomorrow's problems.

*Green Building* The Fairmont Press, Inc.

The escalating interdependency of nations drives global geopolitics to shift ever more quickly. Societies seem unable to control any change that affects their cities, whether positively or negatively. Challenges are global, but solutions need to be implemented locally. How can architectural research contribute to the future of our changing society? How has it contributed in the past? The theme of the 10th EAAE/ARCC International Conference, "Architectural Research Addressing Societal Challenges", was set to address these questions. This book, *Architectural Research Addressing Societal Challenges*, includes reviewed papers presented in June 2016, at the 10th EAAE/ARCC International Conference, which was held at the facilities of the Faculty of Architecture of the University of Lisbon. The papers have been further divided into the following five sub-themes: a Changing Society; In Transit - Global Migration; Renaturalization of the City; Emerging Fields of Architectural Practice; and Research on Architectural Education. The

EAAE/ARCC International Conference, held under the aegis of the EAAE and of the ARCC, is a conference organized every other year, in collaboration with one of the member schools/ universities of those associations, alternatively in North America or in Europe.

**The Routledge Handbook on Greening High-Density Cities** IGI Global

Imagine waking up to the gentle noises of the city, and moving through your day with complete confidence that you will get where you need to go quickly and efficiently. *Soft City* is about ease and comfort, where density has a human dimension, adapting to our ever-changing needs, nurturing relationships, and accommodating the pleasures of everyday life. How do we move from the current reality in most cities—separated uses and lengthy commutes in single-occupancy vehicles that drain human, environmental, and community resources—to support a soft city approach? In *Soft City* David Sim, partner and creative director at Gehl, shows how this is possible, presenting ideas and graphic examples from around the globe. He draws from his vast design experience to make a case for a dense and diverse built environment at a human scale, which he presents through a series of observations of older and newer places, and a range of simple built phenomena, some traditional and some totally new inventions. Sim shows that increasing density is not enough. The soft city must consider the organization and layout of the built environment for more fluid movement and comfort, a diversity of building types, and thoughtful design to ensure a sustainable urban environment and society. *Soft City* begins with the big ideas of happiness and quality of life, and then shows how they are tied to the way we live. The heart of the book is highly visual and shows the building blocks for neighborhoods: building types and their organization and orientation; how we can get along as we get around a city; and living with the weather. As every citizen deals with the reality of a changing climate, *Soft City* explores how the built environment can adapt and respond. *Soft City* offers inspiration, ideas, and guidance for anyone interested in city building. Sim shows how to make any city more efficient, more livable, and better connected to the environment.

*Moving to Sustainable Buildings*: Taylor & Francis

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