



Greening Existing Buildings

Greening Existing Buildings

**Krishna Kant Pathak, J. M. S. J.
Bandara, Ramakant Agrawal**



Greening Existing Buildings :

Sustainable Preservation Jean Carroon, 2010-11-16 Sustainable Preservation takes a nuanced look at the hundreds of choices that adaptive reuse requires architects to make from ingenious ways to redeploy existing structural elements to time honored techniques for natural ventilation to creation of wetlands that restore a site's natural biological functions In addition Sustainable Preservation presents 50 case studies of projects schools houses offices stores museums and government buildings that set new standards for holistic approaches to adaptive reuse and sustainability The author covers design issues from building location to lighting systems renewable power options stormwater handling and building envelope protection and integrity The book also reviews operational issues including materials choices for low lifetime maintenance green housekeeping and indoor air quality *Greening Existing Buildings* Jerry Yudelson, *Greening Existing Buildings with Leadership in Energy and Environmental Design-Existing Buildings!* Tyson H. Dirksen, Mark D. McGowan, Massachusetts Institute of Technology. Department of Urban Studies and Planning, Massachusetts Institute of Technology. Center for Real Estate, 2008 The market of existing office buildings is going green While early adopters of green buildings were owner occupiers there is a current wave of nonowner occupied office buildings seeking Leadership in Energy and Environmental Design LEED for Existing Buildings certification This thesis examines the current context in which this dramatic change is transpiring as well as answers the following questions as they relate to this green transformation of existing multitenanted office buildings Who is participating Why are they participating What is the process What are the costs How is it being financed Research conducted included literature review and interviews with building owners property managers building engineers and brokers in several major metropolitan office markets in the United States This thesis examines green building rating systems from around the world We focus on the LEED rating system the most widely used in the United States as it provides a good framework for owners and managers to evaluate and benchmark the environmental performance of their building Our research indicates that a much higher percentage of Class A office building owners and managers are pursuing LEED for Existing Building LEED EB certification while Class B owners and managers are not Class B owners face less incentives and greater obstacles when pursuing LEED EB certification In chapter four of this thesis we explore two creative ways that Class B owners and managers may be able to overcome some of these hurdles Energy Savings Performance Contracts ESPCs and Power Purchase Agreements PPA *The Paid-From-Savings Guide to Green Existing Buildings* Robert Neal Van Der Like, Peggy Meehan, 2009-01-01 **The Green Building Evolution** Godwell Nhamo, Vuyo Mjimba, 2019-12-19 The Green Building Evolution illuminates global examples and makes use of case studies mainly from South Africa This book is in five parts Part I is a single introductory chapter centred on the evolution of the green building movement Part II addresses the green building terrain Part III presents selected case studies Part IV focuses on chapters that address pushing the boundaries in the green building space while Part V presents emerging trends and policy perspectives Further details are

contained in the main body of the book It is our sincere hope that readers will experience the book as an informative and ground breaking adventure Written by 14 authors from different academic disciplines and areas of specialisation the book comes as the sixth in a series that addresses global and national concerns on climate change sustainable development and the green economy transition agenda The book series is conceptualised and coordinated by the Exxaro Chair in Business and Climate Change led by Prof Godwell Nhamo and hosted by the Institute for Corporate Citizenship ICC at the University of South Africa UNISA The books are published by the Human Sciences Research Council HSRC through the Africa Institute of South Africa

Green Buildings and the Law Julie Adshead, 2011-04-12 Legislation and regulation are driving green development and compliance in a wide variety of ways This review of the law in key jurisdictions for the research community lawyers the construction industry and government examines some of the mechanisms in place from the more traditional building regulation controls to green leases and the law relating to buildings and their natural environment *The Law of Green Buildings* J. Cullen Howe, 2010 Examining the most important issues in achieving the goal of building more efficient and less damaging buildings this book highlight the significant statutes and regulations as well as other legal issues that need to be considered when advising clients in the development construction financing and leasing of a green building Topics include federal incentive programs financing alternative energy site selection land use planning green construction practices and materials emerging legal issues and the effects of climate change on planning and architectural design Greening Spaces for Worship and Ministry Mark A. Torgerson, 2012-05-04 Greening Spaces for Worship and Ministry is a comprehensive guide The book provides a rationale strategies and resources for fulfilling environmental stewardship through the land and buildings of Christian and Jewish congregations New construction renovation and historic preservation projects are addressed Site development material choices energy generation and consumption water use interior air quality green cleaning programs and beauty are discussed Ten congregations from across the United States and Canada are featured as examples of excellence in creation care in and through their built environments

The Green Building Bottom Line (GreenSource Books; Green Source) Martin Melaver, Phyllis Mueller, 2008-12-01 What are the real costs and real benefits of building green As any builder knows cost estimation and reality are often two very different things The Green Building Bottom Line makes the case for green building by providing the insights and data that demonstrate the true costs and benefits of building green It s a why to and a how to that explores everything from the ground up The Green Building Bottom Line puts an entire development team at the table to better understand both the issues encountered and what s behind the perceived price premium for building green This candid and transparent account explores every aspect of green development on groundbreaking projects from the nation s first all retail LEED core and shell project to an innovative multitenanted LEED Existing Buildings office project to a mixed use hotel retail condo project in a transitional urban market The authors focus on such issues as values culture life cycle costs insurance financing coordinating a team marketing and negotiating leases

Includes Detailed case studies of green building projects start to finish Information on financial legal and operational aspects of the job The real world costs of green building not unrealistic estimates A behind the scenes look at the LEED building process Unique insight from those who have actually done the work The Green Building Bottom Line covers Economical and ecological benefits Auditing sustainability in existing buildings Financial benefits of green tenancy Loan analysis Insurance underwriting Expense reduction Writing a green lease Converting an existing building Green retail Brokering sustainability Marketing HR practices and processes

Advances in Energy and Built Environment Guoqiang Zhang,N. D.

Kaushika,S. C. Kaushik,R. K. Tomar,2019-06-29 This book comprises select papers presented at the International Conference on Trends and Recent Advances in Civil Engineering TRACE 2018 The book presents results of experimental investigations into the latest topics related to energy and built environment The topics covered include green and clean technologies zero energy buildings solar energy energy conservation and heat recovery and solar architecture The contents of this book will be beneficial to students researchers and professionals working in the area of energy and built environment engineering

Blueprint for Greening Affordable Housing, Revised Edition Walker Wells,Kimberly Vermeer,2020-07-09 The lack of affordable housing and the climate crisis are two of the most pressing challenges facing cities today Green affordable housing addresses both by providing housing stability safety and financial predictability while constructing and operating the buildings to reduce environmental and climate impacts Blueprint for Greening Affordable Housing is the most comprehensive resource on how green building principles can be incorporated into affordable housing design construction and operation In this fully revised edition Walker Wells and Kimberly Vermeer capture the rapid evolution of green building practices and make a compelling case for integrating green building in affordable housing The Blueprint offers guidance on innovative practices green building certifications for affordable housing and the latest financing strategies The completely new case studies share detailed insights on how the many elements of a green building are incorporated into different housing types and locations Case studies include a geographical range from high desert homeownership to southeast supportive housing and net zero family apartments on the coasts The new edition includes basic planning tools such as checklists to guide the planning process and questions to encourage reflection about how the content applies in practice While Blueprint for Greening Affordable Housing is especially useful to housing development project managers the information and insights will be valuable to all participants in the affordable housing industry developers designers and engineers funders public agency staff property and asset managers housing advocates and resident advocates Every affordable housing project can achieve the fundamentals of good green building design and practice By sharing the authors years of expertise in guiding hundreds of organizations Blueprint for Greening Affordable Housing Revised Edition gives project teams what they need to push for excellence

Emerging Research in Sustainable Energy and Buildings for a Low-Carbon Future Robert J.

Howlett,John R. Littlewood,Lakhmi C. Jain,2021-02-06 This book contains an introduction and 20 studies each describing a

recent research investigation in the area of sustainable and resilient buildings built environment infrastructure and renewable energy Contributions are from many different countries of the world and on a range of topics representing a sample of research within the sustainable energy and buildings field The book begins with chapters on the sustainable design of buildings followed by descriptions of issues relating to the renovation restoration and reconstruction of existing buildings or in one case a railway wagon The next part of the book covers factors that form barriers or impediments to low or zero carbon buildings followed by studies of issues relating to policy and certification There then follow four chapters on various topics related to sustainable buildings undergraduate courses insurance issues biophilia relating to buildings and thermal conductivity measurement There are several chapters relating to renewable energy followed by two chapters with a sustainable transport theme one relating to electric vehicles and the other about a sustainable road infrastructure The final chapter is on the manufacture of sustainable building components for the UK housing sector The book is of use to engineers scientists researchers practitioners academics and all those who are interested to develop and use sustainability science and technology for the betterment of our planet and humankind and to mitigate climate change reality **The Routledge**

Handbook on Greening High-Density Cities Peng Du, Kheir Al-Kodmany, Mir M. Ali, 2024-06-17 This new handbook provides a platform to bring together multidisciplinary researchers focusing on greening high density agglomerations from three perspectives climate change social implications and people's health Written by leading scholars and experts the chapters aim to summarize the state of the art and produce a reference book for policymakers practitioners academics and researchers to study design and build high density cities by integrating green spaces The topics covered in the book include but are not limited to Urban Heat Island Green Space and Carbon Sequestration Green Space and Social Equity Green Space and Public Health Biophilic Cities Urban Agriculture Vertical Farms Urban Farming Technologies Nature and Biodiversity Nature and Health Biophilic Design Green Infrastructure Urban Revitalization Post Covid Cities Smart and Resilient Cities Tall Buildings and Sustainable Vertical Cities Green Village and Town Construction in China Xiaoming Wang, Hong Hua, 2021-05-27 By means of multidisciplinary research on urban and rural planning construction engineering environmental engineering and engineering sociology this book conducts pioneering research on the construction theory construction methods evaluation technology and application of demonstration projects in China's green villages and towns The book is divided into three parts and eleven chapters Part I is about the theory and development of green village and town construction including the theory and innovation the evolution and development the patterns and mechanisms and the community of green village and town construction Part II is about the planning and construction methods of green villages and towns including the plan compilation the environmental infrastructure construction and the construction and renovation of green buildings in villages and towns Part III is about the evaluation of the planning and construction of green villages and towns including the evaluation of plans the evaluation of environmental infrastructure construction the evaluation of green

building construction and the comprehensive evaluation of the planning and construction of green villages and towns Today 564 million farmers live in 28 500 towns and 2 452 million villages in China In 2018 alone 820 million m² of new houses were built in rural areas This proves that China's green village and town construction has great significance and can provide enlightenment to developing countries and even to the world The book describes new theories new perspectives and new methods of green village and town sustainable construction in China for overseas experts and readers

Becoming a Green Building Professional Holley Henderson, 2012-08-03 A career guide for professionals in sustainable architecture design planning development and related consulting For those considering a new career or a career change focused on green and sustainable building and design *Becoming a Green Building Professional* offers practical information on educational requirements career options guidance and tips and first hand interviews with green building professionals Perfect for underemployed architects and other building and design professionals who want to reinvent and renew their careers as well as students considering such a career this is a vital and informative guide to a growing field

Building Information Modelling (BIM) in Design, Construction and Operations IV J. Casares, A. Galiano Garrigós, 2021-12-29 Containing papers presented at the 4th International Conference on Building Information Modelling BIM in Design Construction and Operations this volume brings together the research of experts from industry practice and academia It describes innovative solutions and predictions for future trends across key BIM related topics The modern construction industry and built environment disciplines have been transformed through the development of new and innovative BIM tools and techniques These have fundamentally altered the manner in which construction teams operate the processes through which designs are evolved and the relationships between conceptual detail construction and life cycle stages BIM is essentially value creating collaboration throughout the entire life cycle of an asset underpinned by the data attached to them BIM has far and reaching consequences on both building procurement and infrastructure This recent emergence constitutes one of the most exciting developments in the field of the Built Environment These advances have offered project teams multi sensory collaborative tools and opportunities for new communication structures The included papers cover such topics as BIM in design coordination BIM in construction operations BIM in building operation and maintenance BIM and sustainability BIM and collaborative working and practices BIM Facilities management integration BIM GIS integration BIM and automation in construction BIM and health and safety BIM standards BIM and interoperability BIM and life cycle project management BIM and cultural heritage BIM and robotics BIM in risk analysis and management BIM in building cost control BIM and building representation Virtual design and construction VDC BIM in the execution phase BIM for infrastructure development Digital twins

Handbook of Green Building Design and Construction Sam Kubba, 2016-10-15 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 Sustainable Preservation Jean Carroon,2011-02-15 Sustainable Preservation takes a nuanced look at the hundreds of choices that adaptive reuse requires architects to make from ingenious ways to redeploy existing structural elements to time honored techniques for natural ventilation to creation of wetlands that restore a site s natural biological functions In addition Sustainable Preservation presents 50 case studies of projects schools houses offices stores museums and government buildings that set new standards for holistic approaches to adaptive reuse and sustainability The author covers design issues from building location to lighting systems renewable power options stormwater handling and building envelope protection and integrity The book also reviews operational issues including materials choices for low lifetime maintenance green housekeeping and indoor air quality Future is Urban: Livability, Resilience & Resource Conservation Utpal Sharma,R. Parthasarathy,Dr Aparna,2023-05-26 Cities have played an important role in our lives since the dawn of civilization However cities are slowly becoming overwhelmed and therefore intervention is desirable towards green blue and egalitarian nature Even with current urban issues we must rise to the occasion as professionals to create cities that are social cities that take care of the environment and cities that are digital Increased citizen participation is indispensable in this process The International Conference on Future is Urban IFCU 21 Dec 16 18 2021 Ahmedabad India takes into account Livability Resilience Resource Conservation for planning Future and cities in future Latest Developments in Civil Engineering Krishna Kant Pathak,J. M. S. J. Bandara,Ramakant Agrawal,2023-10-02 This book comprises select proceedings of the International Conference on Recent Advances in Civil Engineering RACE 2022 The contents of this book focus on the recent advancements and innovations in the field of civil engineering and various related areas such as design and development of new sustainable and smart building materials performance analysis and simulation of steel structures design and performance optimization of concrete structures structural engineering geotechnical engineering water resources engineering and hydraulics transportation and bridge engineering building services design surveying and remote sensing engineering management and renewable energy This book serves as a useful reference to researchers and professionals in the field of civil engineering

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