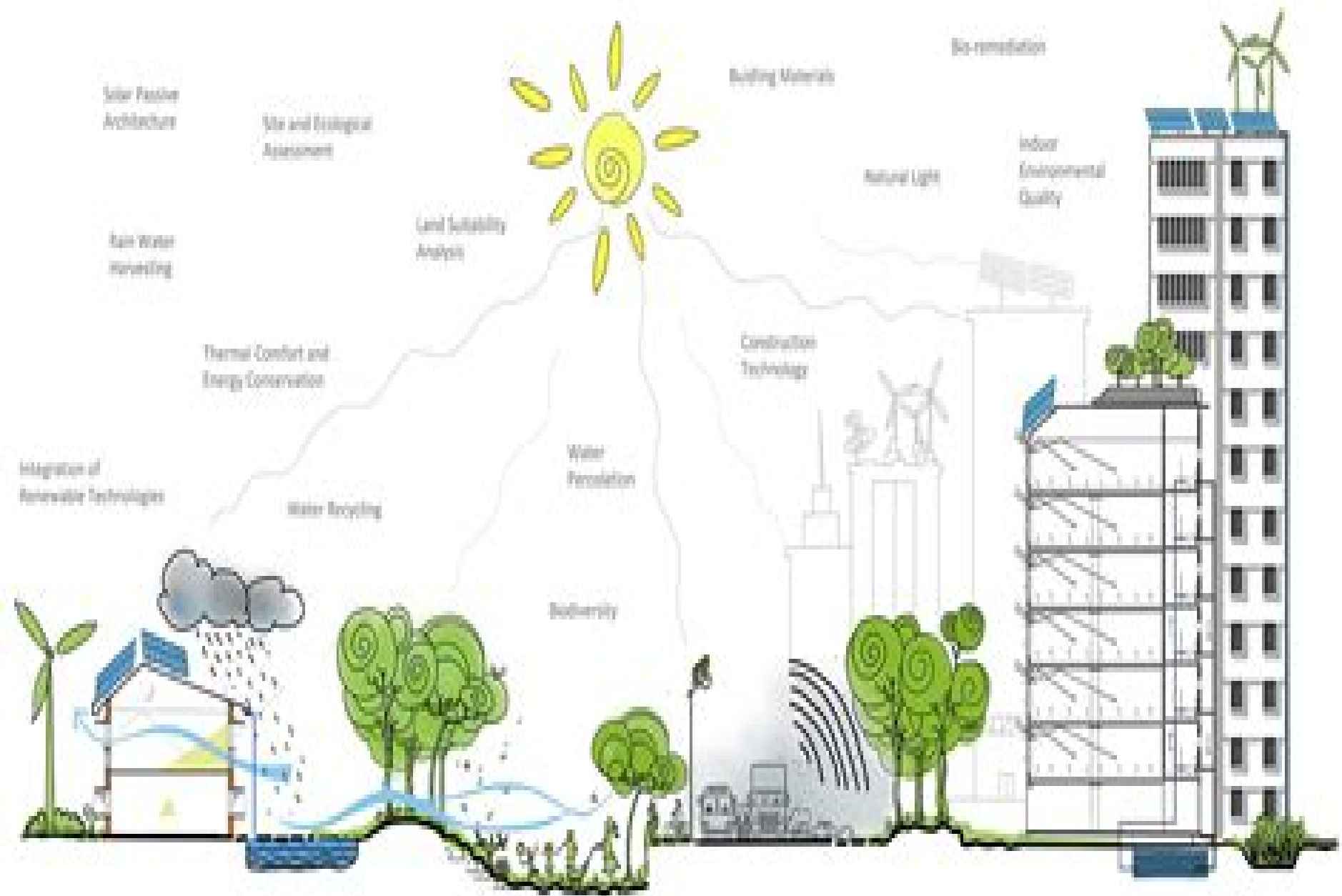




Sustainable Building Design Guidelines

Shasha Hu



Sustainable Building Design Guidelines:

Sustainable Building Standards and Guidelines for Mixed-Use Buildings Ranjit Gunewardane, 2018-09-29 With increasing numbers of consumers becoming more environmentally conscious in their purchasing behavior environmental practices are a decisive factor in the real estate sector Reconciling the seemingly opposing goals of improving the environment and providing the needed infrastructure to support economic growth is the origin of the sustainable green building concept This concept is simply about being mindful of the potential impact that the design construction and operation of commercial buildings will have on the environment and devising innovative strategies to mitigate or eliminate these impacts This means changing the traditional process of designing buildings and their construction and operation as well as the integration of emerging trends in many technology fields into buildings The Sustainability Building Standards and Guidelines contains information intended as minimum standards for designing constructing and equipping sustainable mixed use buildings Insofar as practical these standards relate to desired performance or results or both Sustainable green buildings are as much about construction as they are about design The book includes a description of the special design features construction processes the systems of operation and maintenance and the interrelationships of these various functions Increasingly staying competitive means building owners property developers designers manufacturers and contractors are focused on achieving increasingly environmentally friendly and energy efficient buildings with the ultimate goal of producing environmentally and energy neutral buildings High Performance Building Guidelines Andrea Woodner, 2000 High performance buildings maximize operational energy savings improve comfort health design process site design building energy use indoor environment material water mgmt construction admin commissioning operations maintenance

International Building Codes and Guidelines for Interior Design Lisa M. Tucker, 2018-10-04 This book fits a niche that doesn't seem to have been addressed so far I can easily see the case studies as a wonderful weapon for students to use to attempt to emulate for their projects Robert Paul Meden Marymount University USA Introduces you to the International Building Codes and other regulatory guidelines and shows you how to apply design solutions with illustrated case studies The book provides an overview of building codes and standards and includes a description of the permitting process document submission and compliance and occupancy of the built project The second part of the book is comprised of case studies illustrating all of the major codes areas These case studies include REVIT rendered illustrations of important details exercises practicing key concepts and end of chapter compliance checklists Special attention has been given to including both LEED and WELL Building Standards Features An innovative approach to learning codes and guidelines which presents them as an opportunity for design creativity Chapter features include learning objectives key terms case studies checklists codes tables and project exercises Includes the latest updates for IBC 2018 codes compliance Projects include both residential and commercial spaces **Fundamentals of Integrated Design for Sustainable Building** Marian

Keeler, Prasad Vaidya, 2016-04-08 The Fully Updated Indispensable Study of Sustainable Design Principles Fundamentals of Integrated Design for Sustainable Building is the first textbook to merge principles theory and practice into an integrated workflow This book introduces the technologies and processes of sustainable design and shows how to incorporate sustainable concepts at every design stage This comprehensive primer takes an active learning approach that keeps students engaged This book dispenses essential information from practicing industry specialists to provide a comprehensive introduction to the future of design This new second edition includes Expansive knowledge from history and philosophy to technology and practice Fully updated international codes like the CAL code and current legislations Up to date global practices such as the tools used for Life Cycle Assessment Thorough coverage of critical issues such as climate change resiliency health and net zero energy building Extensive design problems research exercise study questions team projects and discussion questions that get students truly involved with the material Sustainable design is a responsible forward thinking method for building the best structure possible in the most efficient way Conventional resources are depleting and building professionals are thinking farther ahead This means that sustainable design will eventually be the new standard and everyone in the field must be familiar with the concepts to stay relevant Fundamentals of Integrated Design for Sustainable Building is the ideal primer with complete coverage of the most up to date information Guideline for sustainable, energy efficient architecture and construction Rückert, Klaus, Shahriari, Effatolsadat, 2014-07-22 Nowadays there is an ever growing awareness regarding inevitable importance of sustainable development and its sub topics such as environment protection ecology resource saving energy efficiency etc Due to massive and rapid development in recent years this topic is getting more crucial in developing countries for instance Iran It is getting more obvious that most of the development activities in absence of precise analysis of current conditions as well as consequences of such activities will lead to devastation of natural resources The resources that is essential for further development of the country Therefore It is necessary to deal with sustainable development and environmental issues from the broader perspective where includes items underlying immediate causes of environmental impact and at the same time tries to improve them Sustainability or sustainable development is an umbrella covering many issues and aspects among them energy which is the key item because energy consumption of buildings could have an impact on environment more than other aspects Considering the huge portion of energy consumption in construction industry and housing sector paying special attention to improvements in this sector is essential Following this goal the aim of this publication is to highlight procedures and practices which promote sustainable construction that is about creating a better quality of building and more healthy places to live in Procedure of sustainable design includes various approaches and methods to develop energy efficient and environmentally sensitive buildings Such approaches and methods demonstrate how to design develop and construct all buildings in general and residential buildings in particular Among various approaches towards sustainability Passive solar strategies are well known thanks to their cost efficiency and context

friendliness of its principals and measures The approach of passive design architectural strategies could be considered as the most applicable approach for resource saving and sustainability thinking about special situation of Iran in particular and the Mena region in general Such an approach requires paying special attention to climate social characteristics of current or prospective inhabitants topographical physical characteristics as well as architectural characteristics of the understudied area The relationships and interactions among society building and its architecture and climate is Site specific and dynamic Therefore they should be studied and properly analyzed throughout a specific project process for each certain place The most expecting outcomes are precise definitions of passive design strategies generally for buildings in MENA Region and especially for Iran This publication is prepared in the young cities project framework as the reasonable outcome of the developed pilot projects The book starts with introducing the target group related definitions and a brief overview on a conventional approach and its impact on environment This chapter ends up with a brief review on benefits of applying sustainable guidelines As the next step after analyzing the climate and its relationship with thermal comfort and building the main principals of passive solar design are introduced The selected principles are orientation day lighting shading thermal mass insulation and ventilation After a brief introduction of the principals each one is explained in detail through its general principles and design strategies Sustainable construction is examined based on its main pillars construction systems building elements ecological building materials and applicable measures for building physic Construction systems are sorted out in six main groups as block work brick infill block work lightweight block infill conventional panels light weight steel frame tunnel form structural system and precast modular All selected systems are introduced based on following factors brief description of the building concept factory production insulation wastage finishes labor installation transport lifting services hydronic cooling heating and safety Then main building elements are examined Here the elements are limited to foundations walls floors roofs doors and windows After a short description different types of each element are introduced Ecological building materials are investigated in chapter four To find a base to compare several common criteria are selected such as embodied energy pollution and waste local production reusability and recyclability durability and interdependency Applicable measures for building physic are examined in chapter five The selected main measures are as follows insulation glazing thermal mass day lighting shading ventilation and air tightness After describing the general principles of each measure several recommendations in frame of design considerations are provided Die enorme Bedeutung nachhaltiger Projekte wie Umweltschutz kologie sparsamer Umgang mit Rohstoffen Energieeffizienz usw dringt immer st rker in unser Bewusstsein Aufgrund der massiven und rasanten Entwicklung in den Schwellenl ndern z B Iran gewinnen Umweltschutz und Nachhaltigkeit immer mehr an Relevanz Ein einseitiges Wirtschaftswachstum ohne Ber cksichtigung kologischer und klimatischer Bedingungen verursacht die Zerst rung der Umwelt und Rohstoffe Ressourcen die f r die weitere Entwicklung der L nder unverzichtbar sind Es ist unumg nglich sich umfassend mit nachhaltiger Entwicklung und kologischen Aspekten

auseinanderzusetzen die unmittelbaren Auswirkungen auf die Umwelt zu erfassen und gleichzeitig Möglichkeiten einer Optimierung aufzuzeigen Nachhaltigkeit und Umweltschutz erfassen eine Vielzahl von Themen und Aspekten und den Energieverbrauch ein wesentlicher Faktor da der Energieverbrauch in Gebäuden den größten Einfluss auf die Umweltbilanz hat In Anbetracht des enormen Energieverbrauchs in Bauwirtschaft und Wohnungsbau ist es unerlässlich gerade in diesem Bereich eine Optimierung in der weiteren Entwicklung zu verfolgen Diesem Ziel folgend werden in dieser Publikation Verfahren und Methoden für nachhaltige Bauweisen unter Berücksichtigung einer besseren Bauqualität und gesundheitlicher Aspekte erläutert Die Maßnahmen nachhaltigen Designs beinhalten verschiedene Ansätze und Methoden energieeffiziente und umweltfreundliche Gebäude zu entwickeln Sie zeigen Entwurf Konstruktion und bauliche Ausführung von Gebäuden im Allgemeinen und Wohngebäuden im speziellen Neben den verschiedenen Ansätzen sind die passive solar strategies die wohl namhaftesten Methoden da diese sehr rentabel und daher für Bauherren attraktiv sind Angesichts der speziellen Situation im Iran im Besonderen und der MENA Region im Allgemeinen könnten die passiven Design Architektur Strategien als eine der am besten anzuwendenden Methoden für Rohstoffeffizienz und Nachhaltigkeit betrachtet werden Dies setzt eine besondere Berücksichtigung des dortigen Klimas der sozialen Charakteristiken derzeitiger oder zukünftiger Einwohner als auch der topographisch physischen und architektonischen Charakteristiken der betroffenen Region voraus Beeinflussung und Beziehungen zwischen Gesellschaft Gebäuden Architektur und Klima sind lokal spezifisch und dynamisch Deshalb sollten diese Faktoren für jeden Standort neu geprüft und analysiert werden Die Resultate dieser Analysen allgemein für Gebäude in der MENA Region und im Besonderen im Iran zeigen deutlich die Überlegenheit von passiven Designstrategien Diese Publikation ist das Resultat der entwickelten Pilotprojekte im Rahmen des Young Cities Projektes Sie beginnt mit der Vorstellung der Zielgruppe relevanten Definitionen und einem kurzen Überblick des konventionellen Ansatzes und dessen Einfluss auf die Umwelt Das Kapitel endet mit einem kurzen Rückblick über den Nutzen nachhaltiger Bauweise Nach Analyse des Klimas und seine Beziehung zu thermischem Komfort und Gebäuden werden die wichtigsten Prinzipien passiver Solarenergie vorgestellt Orientierung Tageslicht Schatten thermale Masse Isolierung und Ventilierung ihre Grundlagen und Designstrategien detailliert erläutert Nachhaltige Konstruktion und deren Hauptpfeiler Bausysteme Bauelemente ökologische Bauelemente und anwendbare Maßnahmen für die Bauphysik werden anschließend beleuchtet Dabei wurden die Konstruktionssysteme in sechs Hauptgruppen gegliedert Ziegeleinfüllung leichtgewichtige Ziegeleinfüllung klassische Fullwände leichtgewichtige Stahlrahmen tunnelartige Struktursysteme und vorgefertigte Modelle Anhand folgender Faktoren werden diese eingehend dargestellt Baukonzept Fabrikproduktion Isolierung Abnutzung Verarbeitung Arbeitsaufwand Installation Transport Beförderung Services hydronische Kühlung Heizung und Sicherheit Die Hauptbauelemente wie Unterbau Wände Boden Decken Treppen und Fenster werden beschrieben und verschiedene Baureihen dieser vorgestellt Das vierte Kapitel befasst sich mit ökologischen Baumaterialien Um hierbei eine vergleichbare Basis zu finden wurden

gemeinsame Kriterien ausgew hlt graue Energie Verschmutzung und Abfall lokale Produktion Wiederverwendung und Recycling Nachhaltigkeit und Interdependenzen Im f nften Kapitel werden anwendbare Ma nahmen f r die Bauphysik wie Isolierung Lasur W rmemasse Tageslicht Schatten Ventilation und Luftdichte untersucht deren Grundlagen beschrieben und Empfehlungen bez glich der Gestaltung pr sentiert

Understanding Green Building Guidelines: For Students and Young Professionals Traci Rose Rider,2010-02-17 Summarizes the main issues and strategies of the forceful and fast paced green building movement Many professions are increasingly producing tools to assist clients in breaking down and understanding the different elements that reside under the umbrella of the sustainability movement For the design and construction professions this unpacking often takes the form of green building guidelines and rating systems This book aims to look at a selection of both national and local green building rating systems and guidelines ranging from commercial to residential While the goal is to provide students and young professionals with a solid overview of each product enabling them to understand the differences and select the most appropriate system for their chosen projects the book provides valuable overviews and comparisons for anyone interested in better buildings designers homeowners realtors contractors facility managers site designers and more

Sustainable Buildings and Infrastructure Annie R. Pearce,Yong Han Ahn,HanmiGlobal Co, Ltd,2017-12-14 The second edition of Sustainable Buildings and Infrastructure continues to provide students with an introduction to the principles and practices of sustainability as they apply to the construction sector including both buildings and infrastructure systems As a textbook it is aimed at students taking courses in construction management and the built environment but it is also designed to be a useful reference for practitioners involved in implementing sustainability in their projects or firms Case studies best practices and highlights of cutting edge research are included throughout making the book both a core reference and a practical guide

Sustainable Design Guidelines ,2018

Successful Development of Green Building Projects Tayyab Ahmad,2023-06-20 Focusing on office buildings this book explores how Green Building GB development can be managed to achieve successful project outcomes The book starts by highlighting the special requirements of GBs which distinguish them from traditional buildings The book then presents a detailed discussion of the success conditions for GB projects Highlighting 73 success conditions which have been categorised within 20 broad themes the book reports on the findings from interviews with GB stakeholders from Australia Hong Kong Pakistan Singapore the United Arab Emirates and the United Kingdom The book demonstrates how the complexity design methodology and team collaboration prevalent in the delivery of successful GB set them apart from traditional building projects The book also demonstrates that success in GB delivery is generally associated with socio technical conditions The research reported in this book will allow project decision makers such as clients and project team members to consider the wide range of identified success conditions to optimise project performance across its development stages and achieve successful project outcomes Theoretically the findings can inform future research focused on GB development resulting in

the more efficient development of GB projects that can reduce the effects of climate change and resource depletion

Sensible Guide for Healthier School Renovations , *The Green Library Planner* Mary M. Carr,2013-09-11 Green buildings are better buildings In fact buildings use 36% of the energy in the United States according to the Environmental Protection Agency so green buildings that use less energy help to address the very real challenges of reliance on fossil fuel and climate change More than only being environmentally responsible green libraries are beautiful cost effective high performance buildings that enhance occupant health and comfort The Green Library Planner is designed for members of library building design teams who typically are not actively engaged in architecture construction or engineering but who need an introduction to the rationale for green buildings the elements of green building and the language of the field It will be equally useful for public officials boards or administrators who are considering a new green library building a renovated library structure or sustainable elements for a current library facility Mary M Carr a library director who is also a LEED Accredited Professional with national certification first introduces the basic tenets of green building She then covers the gamut of green building from design through all phases of construction or renovation to operations and maintenance Chapter highlights include Fundamentals of Sustainable Building The Importance of Place Energy and Lighting Indoor Environmental Quality Water Conservation and Quality Sustainable Construction Management Techniques Commissioning Sustainable Operations and Maintenance With this information the librarian and related library staff and administrators will be able to design build or renovate and operate the library in the best way possible while considering the environmental and economic challenges faced locally and globally in the 21st century **Materials for Sustainable Sites** Meg Calkins,2008-09-22 Dieser umfassende Leitfaden zur Evaluierung Auswahl und zum Einsatz nachhaltiger Materialien im Landschaftsbau bietet einen Überblick über Strategien mit denen sich die Auswirkungen herkömmlicher Baumaterialien auf die Umwelt und die menschliche Gesundheit minimieren lassen und stellt ökologische Alternativen vor Neben detaillierten und aktuellen Informationen zu Baumaterialien für eine grüne Bebauung erhält der Leser eine Einführung in Werkzeuge Techniken Vorstellungen und Quellen für die Evaluierung Beschaffung und Spezifikation nachhaltiger Baustoffe In den jeweiligen Kapiteln werden sowohl herkömmliche als auch neue ökologische Materialien Auswirkungen der einzelnen Baustoffe auf die Umwelt und die menschliche Gesundheit sowie Strategien zur Minimierung derartiger Belastungen beschrieben Fallstudien geben Auskunft über Kosten und Leistungsmerkmale und dokumentieren die gesammelten praktischen Erfahrungen The Sustainable Built Environment Begum Sertyesilisik,Ahmed Al Shamma'a,2015-11-27 The text adopts an interdisciplinary approach to address the huge challenges in creating a sustainable built environment In a broad survey of critical issues it assesses procurement cost modelling and management sustainable buildings low and zero carbon technologies sustainability in utilities and the law Environmentally Sustainable Buildings Challenges and Policies OECD,2003-04-07 This book presents an analysis of the environmental impacts of the building sector and of current policies to mitigate these impacts in

particular with regard to reduction of CO₂ emission minimisation of construction and demolition waste and prevention of indoor air pollution **World Trade Center Memorial and Redevelopment Plan** ,2004 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 **Gas Hydrate in Carbon Capture, Transportation and Storage** Bhajan Lal,Anipeddi Manjusha,2024-10-31 This book offers a deep insight into gas hydrate based carbon capture transportation and storage technology as a solution to decarbonization The key aspects of carbon capture storage technologies are discussed together with their advantages and status of development and commercialization The authors delve into intricacies of gas hydrate reactor design provide a review on the Techno Economic Aspects TEA expound critical safety considerations and elucidate upon the regulatory mandates shaping the landscape of decarbonization initiatives Gas Hydrate in Carbon Capture Transportation and Storage Technological Economic and Environmental Aspects is an essential resource for all academicians researchers flow assurance engineers industry professionals and students working in this field

Fundamentals of Building Construction Edward Allen,Joseph Iano,2013-10-03 Note from the publisher Now in its sixth edition this bestselling reference focuses on the basic materials and methods used in building construction Emphasizing common construction systems such as light wood frame masonry bearing wall steel frame and reinforced concrete construction the new edition includes new information on building materials properties the latest on pre engineered building components and sustainability issues and reflects the latest building codes and standards It also features an expanded series of case studies along with more axonometric detail drawings and revised photographs for a thoroughly illustrated approach

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 *Real Property Sustainable Development Guide* United States. General Services Administration. Office of Governmentwide Policy. Office of Real Property,2000

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