

Sustainable Building Guidelines

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.

How can human communities sustain a long-term existence on a small planet? This challenge grows ever more urgent as the threat of global warming increases. Planning for Sustainability presents a wide-ranging, intellectually well-grounded and accessible introduction to the concept of planning for more sustainable and livable communities. The text explores topics such as how more compact and walkable cities and towns might be created, how local ecosystems can be restored, how social inequalities might be reduced, how greenhouse gas emissions might be lowered, and how more sustainable forms of economic development can be brought about. The second edition has been extensively revised and updated throughout, including an improved structure with chapters now organized under three sections: the nature of sustainable planning, issues central to sustainable planning, and scales of sustainable planning. New material includes greater discussion of climate change, urban food systems, the relationships between public health and the urban environment, and international development. Building on past schools of planning theory, Planning for Sustainability lays out a sustainability planning framework that pays special attention to the rapidly evolving institutions and power structures of a globalizing world. By considering in turn each scale of planning—international, national, regional, municipal, neighborhood, and site and building—the book illustrates how sustainability initiatives at different levels can interrelate. Only by weaving together planning initiatives and institutions at different scales, and by integrating efforts across disciplines, can we move towards long-term human and ecological well-being. 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.

Green Building Guidelines

Stories and Strategies for Change

Paths to the Future

After the Tsunami

Green Building

Life-Cycle Assessment

Green Building Guidelines: Meeting the Demand for Low-Energy, Resource-Efficient Homes was developed by a committee of builders (both members and non-members of NAHB), architects, building scientists, product manufacturers and others over a 2 1/2 year period (1998-2001). Their work was supported by DOE's Building America Program through the National Renewable Energy Laboratory. The manual is published by the Sustainable Buildings Industry Council and is used in a workshop or seminar setting, or as a stand-alone document. It is a brief, simple-to read, builder-friendly text that is applicable to homebuilders anywhere across the nation who are interested in exploring the notion of rethinking some of the design issues in their current product. The Green Building Guidelines manual is now in its fourth edition. It has been updated and reorganized a bit to make topics easier to find. We've also added two new sections, The Whole Building Approach and The Building

Envelope. The Guidelines are intended to be national in scope, and as a result, the construction information and example details may not fit all climates or circumstances. The text has been organized to acquaint the reader with basic concepts and provide resources where more detailed information can be located. At the end of each section, readers find "Interactions," references to other sections of the book that describe design strategies, systems, components, or materials that interact in important ways with the topic of the chapter.

This volume contains the extended versions of selected papers presented at the first Mediterranean Conference "Sharing Knowledge on Sustainable Building" held at the Polytechnic of Bari in December 1999, supported by the National Research Council of Italy. The publication of this book was made possible through the efforts of the contributing Authors. Other people have provided invaluable support for the conference and for the preparation of this volume; in particular, I wish to thank Antonella Lerario for providing support in the final editing of the text and images. 1 As reported in Boonstra and Rovers (200 I) , people spend a great deal of time inside buildings; therefore, decisions about design, construction, use, maintenance, renovation, demolition, reuse and recycling of buildings have a huge impact on the sustainable development of our society. Technical aspects, however, should be supported by adequate policies, developed with appropriate tools and driven by meaningful challenges. For people involved in sustainable buildings, the conceptual frameworks, studies and experiences collected in this volume, organized into three parts - "Policies", "Tools" and "Challenges" - will help to advance knowledge allowing them to adopt and more efficiently implement such innovations sooner.

This book covers the concept of sustainable development, sustainable building development and the planning process of a sustainable building project. It offers expert insight into tackling sustainable building projects, specifically during the planning process of the project from the conceptual to design stage, to bring together project team members in developing sustainable buildings within the time and budget. This book includes case studies of a number of sustainable building projects in Malaysia. It also features interviews with the sustainable projects' key stakeholders as a way to reveals the sustainable project planning process, including the impact of the process towards project success. It also discusses the issues, barriers and suggested relevant strategies to integrated sustainability principles into the project planning process. This book is the most complete overview of sustainable building projects development in Malaysia that every member of the building project stakeholders will find invaluable.

Specifying for sustainability
Guidebook for Sustainable Architecture
Sustainable Building Guidelines for South-East Asia
Environmentally Sustainable Buildings Challenges and Policies
Select Proceedings of ICSBMC 2021
LEED, BREEAM, and Green Globes

The Sustainability Committee of the American Society of Civil Engineer s Structural Engineering Institute (ASCE SEI) prepared these guidelines to advance the understanding of sustainability in the structural community and to incorporate concepts of sustainability into structural engineering standards and practices. This book will educate and guide structural engineers as they meet the challenge to design and construct a sustainable built environment. The guidelines are organized into five sections: Sustainable Design and Construction, Sustainable Strategies, Building Materials, Infrastructure, and Case Studies. Although many of the subjects presented are related, each section and the related subsections have been written to stand alone, allowing this report to be used as a practical reference. This report was written for structural engineers, but related disciplines will also benefit from the contents. The book includes an important section on infrastructure because, many of the concepts and ideas presented in this guide relate to infrastructure, as well as design and construction.

This first volume of Sustainable building design manuals focuses on policy and regulatory mechanisms and serves as a guide to policy-makers and local authorities

City of Austin Sustainable Building Guidelines
Specifying for sustainability
City of Austin Sustainable Building Guidelines
The State of Minnesota Sustainable Building Guidelines
Summary Version 1.0
Sustainability Guidelines for the Structural Engineer
Amer Society of Civil Engineers

Recommendations from the Presidio of San Francisco Energy Efficiency Design Charrette

Sustainable Building - Design Manual

Innovations in Decision-making

Sustainable Building Standards and Guidelines for Mixed-Use Buildings

Sustainability on Campus

Sustainable Building Materials and Construction

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 physics 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, Ökologie, sparsamer Umgang mit Rohstoffen, Energieeffizienz usw. dringt immer stärker in unser Bewusstsein. Aufgrund der massiven und rasanten Entwicklung in den Schwellenländern, z. B. Iran, gewinnen Umweltschutz und Nachhaltigkeit immer mehr an Relevanz. Ein einseitiges Wirtschaftswachstum, ohne Berücksichtigung ökologischer und klimatischer Bedingungen, verursacht die Zerstörung der Umwelt und Rohstoffe, Ressourcen, die für die weitere Entwicklung der Länder unverzichtbar sind. Es ist unumgänglich, sich umfassend mit nachhaltiger Entwicklung und ökologischen 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, u. a. 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 kurzem 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 Füllwände, leichtgewichtige Stahlrahmen, tunnelförmige Struktursysteme und vorgefertigte Modelle. Anhand folgender Faktoren werden diese eingehend dargestellt: Baukonzepts, Fabrikproduktion, Isolierung, Abnutzung, Verarbeitung, Arbeitsaufwand, Installierung, Transport-Beförderung, Services, hydronische Kühlung/Heizung und Sicherheit. Die Hauptbauelemente wie Unterbau, Wände, Boden, Dächer, Türen 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 ausgewählt: graue Energie, Verschmutzung und Abfall, lokale Produktion, Wiederverwendung und Recycling, Nachhaltigkeit und Interdependenzen. Im fünften Kapitel werden anwendbare Maßnahmen für die Bauphysik, wie Isolierung, Lasur, Wärmemasse, Tageslicht, Schatten, Ventilation und Luftdichte, untersucht, deren Grundlagen beschrieben und Empfehlungen bezüglich der Gestaltung präsentiert

Book features Forward, Contents, Builder's Matrix. The information in this book was developed primarily for home builders, but others will find it useful. The book is intended to be national in scope, so all of the construction information and examples are not relevant for all climates. At the end of each section, readers will find "Interactions," references to other sections of the book that describe design strategies, systems, components, or materials that interact in important ways with the topic of the chapter.

GEF, WHO, UNEP today announced a rejuvenated international effort to combat malaria with an incremental reduction of reliance on the synthetic pesticide DDT. Ten projects, all part of the global programme "Demonstrating and Scaling-up of sustainable Alternatives to DDT in Vector Management", involving some 40 countries in Africa, the Eastern Mediterranean and Central Asia are set to test non-chemical methods ranging from eliminating potential mosquito breeding sites and securing homes with mesh screens to deploying mosquito-repellent trees and fish that eat mosquito larvae. The new projects

follow a successful demonstration of alternatives to DDT in Mexico and Central America. Here pesticide-free techniques and management regimes have helped cut cases of malaria by over 60 per cent.

Challenges and Policies

Sustainable Construction

Environmentally Sustainable Building Design Guidelines

Sustainable Design Guidelines

Guidelines for Sustainable Building Design

policy and regulatory mechanisms

The one-stop guide for choosing a green building rating system

Today, sustainability is a growing concern for the architects, designers, builders, and owners of commercial and residential buildings. Meeting the requirements of a rating system provides a metric to evaluate and set priorities. But the variety and complexity of methods available to assess the eco-friendliness of a building can seem overwhelming. Guide to Green Building Rating Systems informs readers about the rating system selection process. Comparing essential issues such as cost, ease of use, and building performance, this book offers solid guidance that will help readers find the rating system that best fits their needs. This easy-to-follow reference includes: An overview of the major national rating systems, including LEED®, Green Globes®, the National Green Building Standard, and ENERGY STAR® An in-depth look at each rating system, including its evolution, objectives, point structure, levels of certification, benefits, and shortcomings How the ratings systems work for different types of buildings—commercial, multi-family residential, and single-family residential construction Illustrated case studies from different climate regions with project descriptions, cost data, and lessons learned by design teams, constructors, and owners An overview of local, regional, and international rating systems Guide to Green Building Rating Systems demystifies complex material, making this book an essential reference for building professionals engaged in, or wishing to pursue, sustainable building practices.

Sustainable Construction Technologies: Life-Cycle Assessment provides practitioners with a tool to help them select technologies that are financially advantageous even though they have a higher initial cost. Chapters provide an overview of LCA and how it can be used in conjunction with other indicators to manage construction. Topics covered include indoor environment quality, energy efficiency, transport, water reuse, materials, land use and ecology, and more. The book

presents a valuable tool for construction professionals and researchers that want to apply sustainable construction techniques to their projects. Practitioners will find the international case studies and discussions of worldwide regulation and standards particularly useful. Provides a framework for analyzing sustainable construction technologies and economic viability Introduces key credit criteria for different sustainable construction technologies Covers the most relevant construction areas Includes technologies that can be employed during the process of construction, or to the product of the construction process, i.e. buildings Analyzes international rating systems and provides supporting case studies

How to adapt existing building stock is a problem being addressed by local and state governments worldwide. In most developed countries we now spend more on building adaptation than on new construction and there is an urgent need for greater knowledge and awareness of what happens to commercial buildings over time. Sustainable Building Adaptation: innovations in decision-making is a significant contribution to understanding best practice in sustainable adaptations to existing commercial buildings by offering new knowledge-based theoretical and practical insights. Models used are grounded in results of case studies conducted within three collaborative construction project team settings in Australia and the Netherlands, and exemplars are drawn from the Americas, Asia, Japan, Korea and Europe to demonstrate the application of the knowledge more broadly. Results clearly demonstrate that the new models can assist with informed decision-making in adaptation that challenges some of the prevailing solutions based on empirical approaches and which do not accommodate the sustainability dimension. The emphasis is on demonstrating how the new knowledge can be applied by practitioners to deliver professionally relevant outcomes. The book offers guidance towards a balanced approach that incorporates sustainable and optimal approaches for effective management of sustainable adaptation of existing commercial buildings.

Sustainable Construction Technologies

Planning for Sustainability

Guidelines for green building housekeeping and maintenance

Sustainable building guidelines

Sustainable Building Through The Project Planning Process:

The Case of Malaysia

Handbook of Green Building Design and Construction

'Sustainable Construction' uses the latest US Green Building Council's Leadership in Energy and Environmental Design standard to explain the best practices in building procurement and delivery systems.

This guidebook was the most recognized first step taken in what is now a heralded sustainable program for buildings in New York City. These guidelines review sustainable strategies in the indoor environment, in site design, in water management, in material and product selection, and much more. Although they were written for the design and management of public facilities, our guidelines have been in demand from professionals in all parts of the field.

A companion to Understanding Green Building Guidelines, this primer explains green building products—what they are and how to choose them. From eco-friendly sheetrock to sustainable paint finishes, the green building movement is gaining momentum. But with new products, manufacturers, and standards being introduced routinely, how are architects or designers to know what's best for their projects? This book summarizes what is available and the considerations for selecting sustainable materials.

The Facility Management Handbook Chapter 10: Sustainability in Practice

Understanding LEED, Green Globes, Energy Star, the National Green Building Standard, and More proceedings

Leadership in Architectural Research

Understanding Green Building Materials

People across the world are becoming more aware of the need for the buildings cities they live and work in to be sustainable, but the issue of how to be sustainable seem a confusing and complex one. These rules of thumb provide universal guide the sustainable design of both buildings and the urban realm. It's a global primer textbook for anyone interested in understanding sustainability in the built environment an ideal starting point for students as well as an aide memoir for more experienced readers and practitioners interested in this field.

In 1994, the Bay Chapter of the Association of Energy Engineers{reg_sign} organized a two-day design charrette for energy-efficient redevelopment of buildings by the Park Services (NPS) at the Presidio of San Francisco. This event brought together engineers, researchers, architects, government officials, and students in a particular environment to apply their experience to create guidelines for the sustainable re

Presidio buildings. The venue for the charrette was a representative barracks building located at the Main Post of the Presidio. Examination of this building allowed for the development of design recommendations, both for the building and for the remaining facilities. The charrette was organized into a committee structure consisting of steering, measurement and monitoring, modeling, building envelope and historic preservation (architectural), HVAC and controls, lighting, and presentation. Prior to the charrette itself, the modeling and measurement/monitoring committees developed substantial baseline data for the other committees during the charrette. An integrated design approach was initiated through interaction between the committees during the charrette. Later, committee reports were cross-referenced to emphasize whole building design and systems integration.

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 in 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.

Theory and Practice of Responsive Design in the Heritage Environment
Recommendations

101 Rules of Thumb for Sustainable Buildings and Cities

Meeting the Demand for Low-Energy, Resource-Efficient Homes

Guide to Green Building Rating Systems

Green Building Design and Delivery

This book presents the select proceedings of the International Conference on Sustainable Building Materials and Construction (ICSBMC 2021), and examines a range of durable, energy-efficient, advanced construction and building materials produced from industrial wastes and byproducts. The topics covered include advanced construction materials, durability of concrete structures, waste utilization, repair & rehabilitation of concrete structures, structural analysis & design, composites, nanomaterials and smart materials in seismic engineering. The book also discusses various properties and performance attributes of modern-age concretes including their strength, durability, workability, and carbon footprint. This book will be a precious reference for beginners, researchers, and professionals interested in sustainable construction and allied fields.

An important consideration for energy-efficient buildings is their primary energy requirements over the entire life cycle. How to determine this? What integrative factors influence the performance of a healthy and sustainable building? This, while it may be important for clients and architects to know, is frequently not very transparent. This book has been written to assist with clarifying target criteria and expanding horizons when it comes to ecological buildings. It is meant as a handbook and source of reference for clients, architects, planners and building operators, to provide them with pertinent information about their design, construction and operation: how to do this in the most energy-efficient and economical manner? Also, there is feedback and documentation about prominent buildings like the Hamburg Dockland or the Landesbank Baden-Wuerttemberg in Stuttgart. They provide excellent architectural examples for detailed construction and design

solutions. Further, there are insightful interviews with architects and clients about many important buildings, which help turn this book into an integrated source of reference for sustainable architecture. - A Guideline for Planning, Construction and Operation of sustainable Buildings - A source of reference for clients, architects, planners and building operators - Innovative architectural examples with sustainable concepts and design Stories both practical and inspirational about environmental leadership on campus. These personal narratives of greening college campuses offer inspiration, motivation, and practical advice. Written by faculty, staff, administrators, and a student, from varying perspectives and reflecting divergent experiences, these stories also map the growing strength of a national movement toward environmental responsibility on campus. Environmental awareness on college and university campuses began with the celebratory consciousness-raising of Earth Day, 1970. Since then environmental action on campus has been both global (in research and policy formation) and local (in efforts to make specific environmental improvements on campuses). The stories in this book show that achieving environmental sustainability is not a matter of applying the formulas of risk management or engineering technology but part of what the editors call "the messy reality of participatory engagement in cultural transformation." In *Sustainability on Campus* campus leaders recount inspiring stories of strategies that moved eighteen colleges and universities toward a more sustainable future. This book is for faculty, students, administrators, staff, and community partners, whether hesitant or committed, knowledgeable or newcomer. Scholars and activists have recognized the crucial role that higher education can play in the sustainability effort, and each chapter in the book is full of ideas about how to get started, revitalize efforts, and overcome roadblocks. Human and at times joyful, these stories illustrate many forms of leadership, in new courses and faculty development, green buildings and administrative policies, student programs, residential life, and collaborations with local communities.

The State of Minnesota Sustainable Building Guidelines

Guideline for sustainable, energy efficient architecture and construction

City of Austin Sustainable Building Guidelines

A Framework for Sustainable Building Development Guidelines for the City of Santa Monica

Sustainable Buildings and Infrastructure

Creating Livable, Equitable and Ecological Communities

This book incorporates UK and international case studies and essays to identify the overlaps in the interests of energy and building conservation. The relevance and adjustments of qualitative and quantitative frames of reference are introduced, alongside the various expertise of the contributors: architects, designers, conservation consultants and academics. The second part of the book showcases sustainable domestic and non-domestic heritage projects, translating the preceding research into information that practitioners can use in their everyday work. The book will appeal to architecture students, newly qualified professionals and conservation architects and will enhance readers' ambitions, so that they feel equipped and inspired to work with old buildings sensitively, creatively and sustainably. 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

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.

Sustainable Building Adaptation

Sustainable Building Conservation

Summary Version 1.0

Meeting the Demand for Low-energy, Resource-efficient Homes

High Performance Building Guidelines

Fundamentals of Integrated Design for Sustainable Building