

Advanced Building Technologies For Sustainability

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Our MSc Sustainable Building Technology is tailored towards graduates in building services, architectural environmental engineering, architecture and other related disciplines. The course is structured to accommodate the interests and skills of those who are related to building design and technology and building energy and environmental performance.

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Advanced Building Technologies International, LLC is a manufacturer of the highest quality, technologically advanced, pre-engineered, convertible, transportable buildings. Made in the USA, we specialize in the design and sales of custom, multi-purpose, factory built, structures.

Practical solutions for sustainability In this timely guide, one of the world's leaders in advanced building technology implementation shows architects and engineers proven and practical methods for implementing these technologies in sustainably-designed buildings. Because of the very limited time architects are given from being awarded a project to concept design, this book offers clear and workable solutions for implementing solar energy, radiant heating and cooling floors, displacement ventilation, net zero, and more. It provides helpful tips and suggestions for architects and engineers to work together on implementing these technologies, along with many innovative possibilities for developing a truly integrated design. This book also explores and explains the many benefits of advanced technologies, including reduced greenhouse gas emissions, lower operating costs, noise reduction, improved indoor air quality, and more. In addition, Advanced Building Technologies for Sustainability: Offers detailed coverage of solar energy systems, thermal energy storage, geothermal systems, high-performance envelopes, chilled beams, under-floor air distribution, displacement induction units, and much more

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Provides case studies of projects using advanced technologies and demonstrates their implementation in a variety of contexts and building types Covers the implementation of advanced technologies in office towers, large residential buildings, hospitals, schools, dormitories, theaters, colleges, and more Complete with a clear and insightful explanation of the requirements for and benefits of acquiring the U.S. Green Building Council's LEED certification, Advanced Building Technologies for Sustainability is an important resource for architects, engineers, developers, and contractors involved in sustainable projects using advanced technologies.

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This book highlights the various technologies that are currently available or are now being developed for the green and smart buildings of the future. It examines why green building performance is important, and how it can be measured and rated using appropriate benchmarking systems. Lastly, the book provides an overview of the state-of-the-art in green building technologies and the trend towards zero energy or net positive energy buildings in the future.

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

Chapter 1.Green Architecture: An Overview;Chapter 2.Definitions and Operationalizations of Green Architecture;Chapter 3.Brief History of Green

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Architecture;Chapter 4.Green Technologies: Energy Generation;Chapter 5.Green Technologies: Energy Retention;Chapter 6.Green Materials;Chapter 7.Smart Materials;Chapter 8.Case Studies;BibliographyIndexOsman Attmannis an architect and associate professor at the College of Architecture and Planning, University of Colorado.

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

Sustainable Design and Build provides a complete reference for engineers and scientists who want to conduct sustainability research. The book begins with a rudimentary discussion of environmental pollution and energy that is followed by their applications for solving problems in construction processes and practices governing advanced building design, infrastructure and transportation, and water and sewage. Other topics include engineering invisible roads and bridges, smart building technology, building information modeling, energy modeling, resilience in urban and rural development, engineering invisible roads and bridges, zero emission vehicles and flying transportation technology. This book presents a valuable guide to sustainable design and construction processes and methods. Covers the latest research in the utilization of renewable energy and the implementation in construction and building system design Includes a detailed discussion on combined technology applications of energy, gas and water Covers advanced methods and technologies for constructing sustainable transportation systems, including roads, bridges, tunnels and hardscapes

Filling a gap in existing literature on sustainable design, this new guide introduces and illustrates sustainable design principles through detailed case studies of sustainable buildings in Europe, North America and Australia. The guide will provide the reader with a deeper understanding of the design issues involved in delivering sustainable buildings, and giving detailed description of the process of integrating principles into practice. Approximately one hundred case studies of sixty buildings, ranging from small dwellings to large commercial buildings, and drawn from a range of countries, demonstrate best current practice. The sections of the book are divided into design issues relating to sustainable development, including site and ecology, community and culture, health, materials, energy and water. With over 400 illustrations, this highly visual guide will be an invaluable reference to all those concerned with architecture and sustainability issues.

This diverse resource on renewable energy and sustainable technologies highlights the status, state of the art, challenges, advancements and options in areas such as energy recovery systems, turbine ventilators, green composites, biofuels and bio-resources for energy production, wind energy, integrated energy-

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efficient systems, thermal energy storage, natural ventilation & day-lighting systems, and low carbon technologies for building and environmental applications. It is designed to serve as a reference book for students, researchers, manufacturers and professionals working in these fields. The editors have gathered articles from world-leading experts that clearly illustrate key areas in renewable energy and sustainability. The distinct role of these technologies in future endeavors is stressed by taking into account the opportunities to contribute with new approaches, methods and directions for building and environmental applications. The in-depth discussion presented in this book will give readers a clear understanding of every important aspect of each technology's applications, optimum configuration, modifications, limitations and their possible improvements.

A remarkable collection of vibrant and diverse readings, Sustainable Architecture White Papers explores the critical link between our built and natural environments. Cutting-edge architecture, design, planning, public works, and education leaders illustrate the value of a new architectural strategy. Sustainable Architecture teaches us that when creative processes are used in conjunction with social, cultural, and environmental systems, architecture can meet the aesthetic and practical requirements of today without compromising the needs of future generations. A sample of the contents reveals a top-notch team of forward-thinkers: William McDonough: "Eco-effectiveness: A New Design Strategy" Croxton Collaborative Architects: "Human-Centered Sustainable Design" Architectural Record: "Taking the Elective Out of Environmental Education" Karl Linn: "Reclaiming the Commons" Pliny Fisk: "Advanced Green Building" James Wines: "The Art of Architecture in the Age of Ecology" Emilio Ambasz: "Green Towns" This beautifully assembled compilation, published by the Earth Pledge Foundation, follows on the success of Sustainable Cuisine White Papers and reflects the organization's mission to promote sustainability, primarily in the areas of architecture and cuisine. Working with architects, builders and designers, and farmers, chefs, and restaurateurs, Earth Pledge creates nonprofit media projects that promote "green living" in these respective areas. With a preface by Paul Hawken, this is a star-studded collection of essays on sustainable architecture that speaks to professionals and nonprofessionals alike. A perfect read for anyone interested in how the architecture and design aesthetic connects with environmental sustainability.

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