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*Eco Friendly Architecture*

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## OBRIEN GABRIELLE

Eco Living Japan John Wiley & Sons

Suitable for those interested in green design. This book offers a source listing of materials, manufacturers, design studios, and organizations.

**Designed for the Future** Routledge

Profiles more than twenty residences and other structures built in "natural design" style with adobe, rammed earth, straw bale, and reinvented materials, presenting color photos and the stories of their architects and owners.

**Sustainable Design Basics** Elsevier

Since the mid-1980s, and in particular the 1992 environmental summit in Rio de Janeiro, sustainability has become a global issue and the subject of international debate. In the context of architecture sustainability implies the use of intelligent technology, innovative construction

methods, ecologically friendly materials and use of environmentally-friendly energy resources. This book begins with an overview of the various approaches and developments in sustainable architecture, followed by an in-depth section on urbanism looking at several European towns. In the third section the technologies, materials and methods of ecological architecture are examined. Concluding the volume are 23 sophisticated and innovative European case studies. The author and architect Dominique Gauzin-Müller has specialised on energy and environmental issues and ecological architecture for over 15 years.

*150 Best New Eco Home Ideas* Birkhäuser

This volume discusses the climate responsiveness of sustainable architecture design and technology in China, Japan, Singapore, and South Korea in recent years, addressing concepts and applications in urban planning, building design, and structural performance evaluation. The four sections of the text cover the theory and implementation of sustainable architecture within various geographic boundaries and contexts, offering an interdisciplinary assessment of the challenges faced in urban areas at different climate zones. The main topics covered are: 1) urban ecological

restoration under the influence of climate environment; 2) health and human considerations of building and environment; 3) prototype optimization of sustainable building, and 4) feedback of building performance and design evaluation. The book is intended to be a contribution to the growing body of knowledge on sustainable architecture for applicable use by practitioners, city planners, field researchers, and building operators in building design, construction, usage, operation, and maintenance.

*Green is Beautiful* North Atlantic Books

The green building movement has produced hundreds of "how-to" books and websites that are filled with tips about green building and what homeowners should do to go green. While helpful and informative, when it comes to making actual purchasing and installation decisions, these books do not make it any easier for a homeowner to prioritize against a budget. Here, Schifman shares her knowledge and experience for others to use in their journey toward a greener way of living. Whether the reader is building a new home or doing a minor remodel, a homeowner needs a framework by which to guide their decisions. These decisions are based on values, and the author

posits that there are really only three reasons to go green: For Our Health: By building more sustainably, we reduce our exposure to harmful chemicals and toxins. For Our Wealth: By building a more durable home and being more efficient with resources like water and electricity, we reduce our monthly utility bills and ongoing maintenance expenses. For Our Soul: Collectively doing the right thing for our planet does make a difference—and that is soul-nourishing. Learn the logistics of choosing windows, insulation, appliances, and lighting. Find out about FSC certified wood and about using reclaimed materials. Here is everything you need to make your home sustainable.

**Fundamentals of Integrated Design for Sustainable Building** John Wiley & Sons

"The facade is like the skin of a building, showing the exterior image and composition of the building. From the perspective of environmental protection, Eco-Friendly Building Facade provides readers with numerous building facade cases. Each case follows the eco-friendly principles, such as daylighting, shading, ventilation, low consumption, noise reduction, rainwater collection, prefabrication and high flexibility. All of them are accompanied by detailed graphic information to interpret the design details of the facade. Peter Luger, a professor of architecture from Germany, is invited to write the preface of this book and express his unique views on sustainable design. Professor Peter Luger, with over 20 years of experience, is a certified passive house designer. He's office has made outstanding contributions in the field of low energy consumption and sustainable building design, three of which have obtained the German national sustainable building certification. Environmental protection is the focus of future architectural design, and environmental protection facade will become the top priority. This book collects the detailed knowledge of eco-friendly building façade to introduce what the façade is, what features do eco-friendly façades have, and how to apply them in the projects. Each case is interpreted in depth from two aspects: project brief and key points which focus on the role and application of façade in environmental protection, such as the choice of building orientation, material composition, energy saving facilities and other points to be considered. It is a useful reference work for readers in the architectural field. Wide range of building types, from common building like office, performance centers, residential and commercial buildings to uncommon buildings like parking lots and memorials. The highly authoritative works are selected from famous architects and national public projects, such as Daiwa Ubiquitous Computing Research Building and Aix En Provence Conservatory of Music designed by Kengo Kuma, Helios Building (the head offices of the National Solar Energy Institute) supported by government. Most of projects were received the Gold Medal for World Green Design Award." -- artpower.com.cn.

**Building with Earth** John Wiley & Sons

Each day new articles, books, and reports present new methods, standards, and technologies for achieving sustainability in architecture. Additionally, new materials, technological gadgets, and data are increasingly considered the staples of architecture's future. As we increasingly embrace this techno-advancement, we must be equally aware that we may be pushing architecture into a managerial science and away from its core concerns such as expression, contextuality, functionality and aesthetics. Sustainable architecture that is focused on the abstract measurements of consumption, energy, and emissions loses sight of the vital role that architecture holds in our world: it is the field that creates our public spaces and our places of dwelling, of business, of production, of leisure, and creation. Additionally, it fails to comprehend the human dimension of buildings, as elements that are deeply connected to their sites' historic contexts and that play a key role in defining our social relations and our connection to the spaces we occupy and utilize. "Sustainable Architecture – Between Measurement and Meaning" takes a step back to reflect on how sustainability in the built environment can be theorized and practiced critically. This book exposes that architecture remains a human and social science that lies at the intersection of measurements and meanings. It reveals that sustainable architecture can still operate in a dialectic space of expression, rather than serving as a manifesto for either the technical or socio-cultural extremes. It purports that the human intuition, senses, and skills still holds the key to unravelling alternative futures of sustainable built spaces. And that most importantly, humans still have a place in sustainable architecture. This book will be of interest to students, early career scholars, established researchers and practitioners studying sustainability in the built environment. It can be used as a referencee to those in the fields of design, architecture, landscape and urban design, urban studies, geography, social sciences, and engineering.

**Reusable and Sustainable Building Materials in Modern Architecture** John Wiley & Sons

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.

*A Green Vitruvius* HarperCollins

In *Designed for the Future*, author Jared Green asks eighty of today's most innovative architects, urban planners, landscape architects, journalists, artists, and environmental leaders the same question: what gives you the hope that a sustainable future is possible? Their imaginative answers—covering everything from the cooling strategies employed at Cambodia's ancient temple city of Angkor Wat to the use of cutting-edge eco-friendly mushroom board as a replacement for Styrofoam—show the way to our future success on earth and begin a much-needed dialogue about what we can realistically accomplish in the decades ahead. Featuring an international roster of leading design thinkers including: • Biomimicry pioneer Janine Benyus • Curator Barry Bergdoll • Educator and author Alan Berger • Environmentalist and author Lester Brown • Architect Rick Cook • Urban Planner Paul Farmer • Critic Christopher Hume • Architect Bjarke Ingels • Landscape designer Mia Lehrer • Architect Rob Rogers • Critic Inga Saffron • Artist Janet Echelman

**Living Homes** Harper Collins

Designing buildings and physical environments depends on social structure, social needs, economic data, environment, and technological development. Planning these environments is heavily influenced by cultural and regional need, the existing environment, and the materials available. Reusable and Sustainable Building Materials in Modern Architecture is an essential reference source that discusses the shaping of building design through culture and materials as well as the influence of environment on building design. Featuring research on topics such as passive design, ecological design, and urban design, this book is ideal for academicians, specialists, and researchers seeking coverage on culture, environment, and building design.

**Experimental Eco-Design** W. W. Norton & Company

Discover the latest in sustainable architecture and environmentally friendly home design in this outstanding volume in the popular 150 Best series, which features nearly 500 pages of full-color photographs and dozens of inventive and decorative profiles. Architects, designers, and homeowners today looking for comfortable, beautiful dwellings with a minimal carbon footprint will find a cornucopia of ideas in this handsome compendium. A fabulous review of the most forward-thinking eco-friendly house designs being created today, 150 Best New Eco Home Ideas showcases the work of internationally renowned architects and designers who have achieved practical, innovative, and stunning solutions around the globe. From solar paneling and wind energy systems to environmentally-friendly heating and cooling solutions and thermal glazing to trombe walls, 150 Best New Eco Home Ideas covers the latest trends and breakthroughs in eco homes. Inspiring and inventive, this lush sourcebook is essential for architects, designers, interior decorators, and all conscientious homeowners interested in creating warm and inviting homes with only a fraction of the environmental impact of those using conventional methods.

*Environmentally Responsible Design* Konemann

In this timely book, author Marcus Fairs helps readers understand the shift of green design from marginal to mainstream by featuring products and buildings that address immediate concerns about global warming and environmental degradation. Through vast architectural projects to modest one-off pieces of salvaged furniture, the book shows how the design world is responding to the environmental challenges of this century. Author Fairs demonstrates key developments in sustainable design as seen in lighting, houseware, furniture, textiles, products, interiors, architecture, and transportation, including the innovative use of fuel-cell technologies and ultra-lightweight materials. The book shows how the introduction of eco-friendly materials is changing the products around us and charts the rise of low-energy lighting sources and their impact on lighting design. Emerging trends in green design are also covered, from recycling (reusing existing objects to create new products) to ethical sourcing (ensuring products come from sustainable sources). By presenting existing green innovations as well as visionary projects, Green Design paints a bright future in which technology and ethics merge for the benefit of people and the planet.

**Green Design** IGI Global

Developing "sustainable" architectural and agricultural technologies was the intent behind Blueprint Farm. In this book, Steven Moore demonstrates how the various stakeholders' competing

definitions of "sustainability," "technology," and "place" ultimately doomed Blueprint Farm.

**Sustainable School Architecture** Rotovision

Written for students and practitioners in the fields of architecture and interior design, our new Architecture Brief Sustainable Design provides a concise overview of all the techniques available for reducing the energy footprint of structures and spaces. With clear, simple language and a practical "can-do" approach, author David Bergman covers everything from the profession's ethical responsibility, to design structures and spaces that sustain our natural resources, to specific considerations such as rainwater harvesting, graywater recycling, passive heating techniques, solar orientation, green roofs, wind energy, daylighting, indoor air quality, material evaluation and specification, and how to work with green building certification programs.

**Understanding Green Building Materials** Filipacchi Publishing

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.

**Becoming a Green Building Professional** Chronicle Books

"Green, or sustainable, or environmentally-friendly architecture is not simply an environmental benefit. It is place-sensitive; in a globalising world it leads to location-specific architecture by responding to local climatic conditions and using local materials. It also offers better architectural quality with more natural and fewer artificial inputs; not only is less more, less is also beautiful. The book is in independent parts. Four sections structure advice in accordance with the design and construction process, the issues to be considered, the strategies to be adopted and the elements of green design. A fifth section advises on design evaluation."--Publisher's description.

*Building with Earth* Springer

Having designed more than 75 K-12 school projects, and with a long-standing commitment to sustainability and a passion for architecture, Alan Ford is perfectly positioned to present this illuminating collection of sustainable school projects from around the world. Designing the Sustainable School is a compendium of ideas illustrating how some very talented architects and committed facility planners are meeting the challenge of creating better schools for the 21st century. They are creating schools that are eco-friendly, embody high-performance design principles, are rich in architectural character, and enhance the health and well-being of students and teachers. The projects represent a wide range of design solutions, aesthetics, location, and scale, ranging in size from the Aga Khan Award-winning three-room schoolhouse in Burkina Faso by Diebedo Francis Kere, to the 2500-student, 260,000-square-foot high school in Santa Ana, California by LPA Architects. Each of the 45 featured projects is presented with an overview of the components of the high-performance "tool kit" employed by architects to achieve sustainable design goals. Collectively, these demonstrate the breadth of tools that today's architects can employ to build a sustainable future for our children.

**Eco-architecture** Images Publishing

Architectural photographer Claudio Santini takes readers on an exclusive tour of some of the world's most beautiful green homes. The pictorial journey winds its way through chapters on photovoltaics, passive shading, recycled materials and other sustainable concepts contribute to a home's architectural aesthetic. Santini's stunning imagery sparks the imagination and illuminates the green side of work by some of California's most famous architects, including Studio Pali Fekete architects (SPF:a), Ted Tokio Tanaka Architect, LeanArch and Pugh plus Scarpa.

**Eco Structures** McGraw Hill Professional

Featuring an extensive collection of full-color photographs, 150 Best Eco House Ideas features eco-friendly house designs created by internationally renowned architects and designers who have achieved practical, innovative, and stunning solutions adapted to the specific needs and tastes of their clients. Included here are the latest innovations in sustainable home design, including solar paneling, wind energy systems, environmentally-friendly heating and cooling solutions, thermal glazing, and trombe walls. 150 Best Eco House Ideas covering the diversity of current trends in sustainable home design, and is both the perfect resource for designers, interior decorators, and

architects, as well an inspirational sourcebook for all homeowners interested in creating warm and inviting homes that cause only a fraction of the environmental impact of those created using conventional building methods.

**Sustainable Design** University of Texas Press

The objective of Sustainable Communities Design Handbook is to ensure a better quality of life for everyone, both now and for generations to come. This means creating a better and safer

environment internationally through the sustainable use of natural resources, encouraging sustainable development which supports a strong economy, and ensuring a high quality environment that can be enjoyed by all. Sustainable Development Partnerships brings together in one reference today's most cutting edge technologies and methods for creating sustainable communities. With this book, Environmental Engineers, Civil Engineers, Architects, Mechanical

Engineers, and Energy Engineers find a common approach to building environmental friendly communities which are energy efficient. The five part treatment starts with a clear and rigorous exposition of sustainable development in practice, followed by self-contained chapters concerning applications. Methods for the sustainable use of natural resources in built communities Clearly explains the most cutting edge sustainable technologies Provides a common approach to building sustainable communities Coverage of sustainable practices from architecture to construction