Passive House Object Documentation Passivhaus Planer

A study of energy efficient residential buildings in Sweden
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Improving Homes for Energy, Health and the Environment
The Greenest Home
Selected Papers from the World Renewable Energy Congress WREC 2018
A Green Vitruvius
A Socio-Technical Analysis of Low-Carbon Transitions in UK Electricity, Heat, and Mobility Systems
Energy Efficient Buildings
Net zero energy buildings
Selected Papers from the World Renewable Energy Network's Med Green Forum 2017
Life Cycle Assessment (LCA), Eco-Labelling and Case Studies
From Structural Design to Interior Fit-out: Assessing and Improving the Environmental Impact of Buildings
Energy Options for a Low-Carbon Future
Principles and Applications
Passive House Details
Details for Passive Houses: Renovation
Sustainable Building for a Cleaner Environment
A Practical Guide to Constructing and Retrofitting Buildings
Case Studies in Realizing Green Buildings
A technical guide to low and zero energy buildings
Leading-Edge Design and Construction of Homes and Buildings for a Renewable Energy Future
Renewable Energy and Sustainable Buildings
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Special Report of the Intergovernmental Panel on Climate Change

Building Information Modelling, Building Performance, Design and Smart Construction
A Life Cycle Approach
Proceedings of the Second International PLEA Conference, Crete, Greece, 28 June-1 July 1983

BARRON POLLARD

A study of energy efficient residential buildings in Sweden Elsevier
Building openings provide light, ventilation and climate control for rooms. At the same time, they are essential functional and design elements of facades. This manual offers solid facts on standards and safety features. It covers materials, construction types and specifics of structural connections, incl. solutions on how to deal with existing older windows and issues of ventilation, the use of solar energy and ecological sustainability.
Industries of Architecture Routledge
2000 years ago the roman architect Marcus Vitruvius Pollio wrote the ten books on architecture establishing the concept of the pattern book offering design principles and solutions that is still referred to in every architect's education. A Green Vitruvius is intended as a green pattern book for today. Now fully updated, this well established textbook provides advice suitable for undergraduate and post graduate students on the integration of sustainable practice into the design and construction process, the issues to be considered, the strategies to be adopted, the elements of green design and design evaluation within the process. Classic design elegance is found in the holistic clear solution.
Sustainable Construction Techniques Riba Publishing
Passive House Details introduces the concepts, principles, and design processes of building ultralow-energy buildings. The objective of this book is to provide design goals, research, analysis, systems, details, and inspiring images of some of the most energy-efficient, carbon-neutral, healthy, and satisfying buildings currently built in the region. Other topics included: heat transfer, moisture management, performance targets, and climatic zones. Illustrated with more than 375 color images, the book is a visual catalog of construction details, materials, and systems drawn from projects contributed from forty firms. Fourteen in-depth case studies demonstrate the most energy-efficient systems for foundations, walls, floors, roofs, windows, doors, and more.
Extending the Lives of Buildings Birkhäuser
At a time when the technologies and techniques of producing the built environment are undergoing significant change, this book makes central architecture’s relationship to industry. Contributors turn to historical and theoretical questions, as well as to key contemporary developments, taking a humanities approach to the Industries of Architecture that will be of interest to practitioners and industry professionals, as much as to academic researchers, teachers and students.
How has modern

architecture responded to mass production? How do we understand the necessarily social nature of production in the architectural office and on the building site? And how is architecture entwined within wider fields of production and reproduction—finance capital, the spaces of regulation, and management techniques? What are the particular effects of techniques and technologies (and above all their inter-relations) on those who labour in architecture, the buildings they produce, and the discursive frameworks we mobilise to understand them?

The Passivhaus Handbook Nearly Zero Energy Building RefurbishmentA Multidisciplinary Approach 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.

100 Projects UK CLT John Wiley & Sons

"Net zero energy buildings, equilibrium buildings or carbon neutral cities – depending on location and the reasons for making the calculation, the numbers are run differently. The variety of terms in use indicates that a scientific method is still lacking – which is a problem not just in regard to international communication, but also with respect to planning processes as a response to energy challenges. The clarification and meaning of the most important terms in use is extremely important for their implementation. Since October 2008, a panel of experts from an international energy agency has concerned itself with these topics as part of a project entitled “Towards Net Zero Energy Solar Buildings”. The objective is to analyse exemplary buildings that are near a zero-energy balance in order to develop methods and tools for the planning, design and operation of such buildings. The results are documented in this publication: In addition to the presentation of selected projects, it is not just architectural showcase projects that are shown – the focus is on relaying knowledge and experience gained by planners and builders. Even if many questions remain unanswered: Project examples that have already been implemented prove on a practical basis that the objective of a zero energy balance is already possible today."

Strategies and Opportunities to 2050 Green Books

This updated and expanded edition, Details for Passive Houses, includes 100 standard

cross-sections that now conform to passive house standards as well as up-to-date ecological evaluations. Planners, architects, and engineers will ?nd reliable construction details for the passive house standard, criteria for the proof of ecologically optimized planning, and important information on the latest building materials. Details for Passive Houses is an essential work of reference for students and architectural professionals.

Ten Technologies to Save the Planet Taunton Press The recast of the Energy Performance of Buildings Directive (EPBD) was adopted by the European Parliament and the Council of the European Union on 19 May 2010. For new buildings, the recast fixes 2020 as the deadline for all new buildings to be “nearly zero energy” (and even sooner for public buildings – by the end of 2018). This book gives practitioner an important tool to tackle the challenges of building refurbishment towards nearly zero energy. This book is welcome at this time and sets the scene for professionals whether practitioners or researchers to learn more about how we can make whether old or new buildings more efficient and effective in terms of energy performance.

Research Methods in Education Routledge This book discusses energy efficient buildings and the role they play in our efforts to address climate change, energy consumption and greenhouse gas emissions by considering buildings and the construction sector's unique position along a critical path to decarbonisation from a multi-perspective and holistic viewpoint. Topics covered in the book range from daylighting, building topology comparison, building envelope design, zero energy homes in hot arid regions, life-cycle considerations and energy efficiency analysis to managing energy demand through equipment selection. Each chapter addresses an important aspect of energy efficient building and serves as a vital building block towards constructing a timely and relevant body of knowledge in energy efficient buildings.

Nearly Zero Energy Building Refurbishment Academic Press Ecological refurbishment to Passivhaus standard requires know-how and experience. For this reason, the book has been produced as a design tool which systematically covers existing solutions. Examples relating to building physics, construction and ecology issues are presented in the same successful manner as in the Passivhaus Building Component Catalog also published by IBO/IBN (Institute for Building Biology and Ecology) using standard cross-sections and connection details in four-color scale drawings, as well as numerous tables.They have been organized by type and period of building and can easily be used to derive individual solutions. The book is a must-have reference manual for designers and building owners who want to refurbish properties to a sustainable standard.

Aesthetics of Sustainable Architecture Routledge Handbook of Energy Efficiency in Buildings: A Life Cycle Approach offers a comprehensive and in-depth coverage of the subject with a further focus on the Life Cycle. The editors, renowned academics, invited a diverse group of researchers to develop original chapters for the

book and managed to well integrate all contributions in a consistent volume. Sections cover the role of the building sector on energy consumption and greenhouse gas emissions, international technical standards, laws and regulations, building energy efficiency and zero energy consumption buildings, the life cycle assessment of buildings, from construction to decommissioning, and other timely topics. The multidisciplinary approach to the subject makes it valuable for researchers and industry based Civil, Construction, and Architectural Engineers. Researchers in related fields as built environment, energy and sustainability at an urban scale will also benefit from the books integrated perspective. Presents a complete and thorough coverage of energy efficiency in buildings Provides an integrated approach to all the different elements that impact energy efficiency Contains coverage of worldwide regulation **Improving Homes for Energy, Health and the Environment** Springer Pretty Good House provides a framework and set of guidelines for building or renovating a high-performance home that focus on its inhabitants and the environment--but keeps in mind that few people have pockets deep enough to achieve a "perfect" solution. The essential idea is for homeowners to work within their financial and practical constraints both to meet their own needs and do as much for the planet as possible. A Pretty Good House is: * A house that's as small as possible * Simple and durable, but also well designed * Insulated and air-sealed * Above all, it is affordable, healthy, responsible, and resilient. The Greenest Home Chelsea Green Publishing This Intergovernmental Panel on Climate Change Special Report (IPCC-SRREN) assesses the potential role of renewable energy in the mitigation of climate change. It covers the six most important renewable energy sources - bioenergy, solar, geothermal, hydropower, ocean and wind energy - as well as their integration into present and future energy systems. It considers the environmental and social consequences associated with the deployment of these technologies and presents strategies to overcome technical as well as non-technical obstacles to their application and diffusion. SRREN brings a broad spectrum of technology-specific experts together with scientists studying energy systems as a whole. Prepared following strict IPCC procedures, it presents an impartial assessment of the current state of knowledge: it is policy relevant but not policy prescriptive. SRREN is an invaluable assessment of the potential role of renewable energy for the mitigation of climate change for policymakers, the private sector and academic researchers. Selected Papers from the World Renewable Energy Congress WREC 2018 SAGE Publications This book contains selected papers presented during the World Renewable Energy Network’s 28thanniversary congress at the University of Kingston in London. The forum highlighted the integration of renewables and sustainable buildings as the best means to combat climate change. In-depth chapters written by the world’s leading experts highlight the most current research and

technological breakthroughs and discuss policy, renewable energy technologies and applications in all sectors – for heating and cooling, agricultural applications, water, desalination, industrial applications and for the transport sectors. Presents cutting-edge research in green building and renewable energy from all over the world; Covers the most up-to-date research developments, government policies, business models, best practices and innovations; Contains case studies and examples to enhance practical application of the technologies.

A Green Vitruvius Springer

Buildings are the largest energy consuming sector in the world, and account for over one-third of total final energy consumption and an equally important source of carbon dioxide (CO2) emissions. Achieving significant energy and emissions reduction in the buildings sector is a challenging but achievable policy goal. Transition to Sustainable Buildings presents detailed scenarios and strategies to 2050, and demonstrates how to reach deep energy and emissions reduction through a combination of best available technologies and intelligent public policy. This IEA study is an indispensible guide for decision makers, providing informative insights on: cost-effective options, key technologies and opportunities in the buildings sector; solutions for reducing electricity demand growth and flattening peak demand; effective energy efficiency policies and lessons learned from different countries; future trends and priorities for ASEAN, Brazil, China, the European Union, India, Mexico, Russia, South Africa and the United States; implementing a systems approach using innovative products in a cost effective manner; and pursuing whole-building (e.g. zero energy buildings) and advanced-component policies to initiate a fundamental shift in the way energy is consumed.

Springer Vienna Architecture

Passive is the new green. Passive Houses—well insulated, virtually airtight buildings—can decrease home heating consumption by an astounding 90 percent, making them not only an attractive choice for prospective homeowners, but also the right choice for a sustainable future. The Greenest Home showcases eighteen of the world's most attractive Passive Houses by forward-thinking architects such as Bernheimer Architecture, Olson Kundig Architects, and Onion Flats, among many others. Each case study consists of a detailed project description, plans, and photographs. An appendix lists helpful technical information. Including a mix of new construction and retrofit projects built in a variety of site conditions, The Greenest Home is an inspiring sourcebook for architects and prospective homeowners, as well as a useful tool for students, and builders alike.

A Socio-Technical Analysis of Low-Carbon Transitions in UK Electricity, Heat, and Mobility Systems Nai Uitgevers Pub

Respected, authoritative, award-winning author Chris Goodall tackles global warming reversal in this engaging and balanced book. Ten Technologies to Save the Planet -- popular science writing at its most crucial -- is arguably the most readable and comprehensive overview

of large-scale solutions to climate change available. Goodall profiles ten technologies with the potential to slash global greenhouse emissions, explaining how they work and telling the stories of the inventors, scientists, and entrepreneurs who are driving them forward. Some of Goodall's selections, such as the electric car, are familiar. Others, like algae and charcoal, are more surprising. Illustrated with black-and-white photos and simple charts, Ten Technologies to Save the Planet combines cutting-edge analysis with straightforward explanations about pros and cons, and debunks myths along the way.

Energy Efficient Buildings Birkhäuser

Convergence is based on the thermodynamic premise that architecture should maximize its ecological and architectural power. No matter how paradoxical it might initially seem, architects should maximize energy intake, maximize energy use, and maximize energy feedback and reinforcement. This presumes that the necessary excess of architecture is in fact an architect's greatest asset when it comes to an agenda for energy, not a liability. But how do we start to understand the full range of eco-thermodynamic principles which need to be engaged with in order to achieve this? Kiel Moe explicates three factors: materials, energy systems and amortization. When these three factors converge through design, the resulting buildings begin to perform in complex, if not subtle, ways. By drawing on a range of architectural, thermodynamic, and ecological sources as well as illustrated and well-designed case studies, the author shows what architecture stands to gain by simultaneously maximizing the architectural and ecological power of buildings. .

Net zero energy buildings Routledge

Passive and Low Energy Architecture contains the proceedings of the Second International PLEA Conference held in Crete, Greece, on June 28 to July 1, 1983. The book is organized into four parts as the topics of the conference. The first part brings together papers dealing with case studies of individual buildings or groups of buildings, completed or to be built, and of community planning. The case studies cover examples from 13 countries in Europe, North and Latin America, North Africa, the Middle East, and Asia. The second part contains papers on experimental work and technical developments with passive and low energy systems and components. The third section focuses on the ill-defined but crucial to designers, area of design aids. The fourth section centers on implementation and management of these energy systems, including topics of international programs, education, and training of design professionals. The book will be useful to energy conscious designers, architects, engineers, and planners in this field of interest.

Selected Papers from the World Renewable Energy Network's Med Green Forum 2017 MDPI

Environmental concerns and advances in architectural technologies have lead to a greater number of green buildings or buildings with green, eco-friendly elements. However, from a practical standpoint, there is no incident reporting system in the world that tracks

data on fire incidents in green buildings. Fire safety objectives are not explicitly considered in most green rating schemes, and green design features have been associated with photovoltaic panels and roof materials, lightweight timber frame buildings, and combustible insulation materials. Fire Safety Challenges of Green Buildings is the result of an extensive global literature review that sought to identify issues related to green building elements or features and ways to ensure those issues are tracked for future improvement. The book identifies actual incidents of fires in green buildings or involving green building elements, points out issues with green building elements that would increase fire risk, clarifies reports and studies that address ways to reduce fire risk in green design elements, and compares research studies that explicitly incorporate fire safety into green building design. The authors also pinpoint gaps and specific research needs associated with understanding and addressing fire risk and hazards with green building design. Using their data, the authors developed a set of matrices relating these green attributes and potential fire hazards. With these comprehensive tools, potential mitigation strategies for addressing the relative increase in fire risk or hazard associated with the green building elements and features have been identified. Fire Safety Challenges of Green Buildings is intended for practitioners as a tool for analyzing building safety issues in green architecture and developing methods for tracking data related to green design elements and their potential hazards. Researchers working in a related field will also find the book valuable.

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