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Botanical Buildings Judith Baehner 2021-09-20 * The newest book from Wonderplants author Judith Baehner* An inspiring book full of striking images, clear ideas and beautiful projects,

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range of building types, from small houses - to large office buildings and apartments* "A luxuriously illustrated coffee-table book, Wonder Plants may have significant side effects. The overload of green interior design might have you grow green with envy and scurry off to a nearby

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garden centre" - ELLEThe green architecture movement is a worldwide phenomenon that addresses sustainability and a parallel awareness of how the built world is enriched by nature. This lavishly illustrated book presents the most beautiful and innovative buildings from around the world and explores how they incorporate plants and architecture in both interior design and construction. With inspiring projects and practical tips for both the professional and the enthusiast, the author explores the best of what's green in houses large and small, apartment buildings, and offices.

Building with Straw Bales

Barbara Jones 2009 Straw bale building is a radically different approach to the process of building. Like all innovative ideas, it has been pioneered by the

passionate and used experimentally by those with the vision to see its potential. It is firmly based on the research of Adam Dadeby Pdf Pdf upload Arnold m Williamson

in that sustainable, 'green building' culture that has brought to the construction industry many new and useful ideas about energy efficiency and responsibility towards the environment. As a building material, straw excels in the areas of cost-effectiveness and energy efficiency. This practical guide has been written by the most experienced straw bale builder in the UK. It gives details of all the main construction methods, and includes: * bale specifications * plans * walls and foundations * doors and windows * plastering * building regulations and planning permission * frequently asked questions * construction drawings. This fully revised and updated edition includes new construction drawings, standard details for best practice design, examples of off-the-peg drawings for small buildings such as summer-houses and studios, and designs for

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houses. These designs meet Building Regulations Code 6 for sustainable homes, and have a carbon rating of less than zero.

Self-build Julian Owen
2021-12-24 If you've ever dreamt of designing and building your own home, this book is for you. Becoming a 'self-builder' doesn't necessarily mean learning to build a house physically from scratch. Anyone can be a self-builder - you can do so without ever having to lay a brick yourself. Self-built homes can also be more individual, better designed and more economical than buying from a developer. This book is designed for homeowners and self-builders, whether aspiring or on the brink of starting a project. It provides a jargon-free, step-by-step guide to the process of designing and building your own home, distilling all of the practical information

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easy-to-understand practical guidance and packed with watch points, hints and tips, it also highlights the potential pitfalls and suggests ways of avoiding them. Including indications of costs and timescales, Self-build demystifies the process of budgeting, finding a site, gaining planning permission, designing your home and all of the surrounding issues to do with sustainability, planning, regulations, procurement and the use of building contracts.

Beautifully illustrated with over 230-colour photos, diagrams and plans, it provides all the inspiration and ideas you need to bring your own project to life.

Featured houses include:
Amphibious House by Baca Architects
Corten Courtyard House by Barefoot Architects
Haringey Brick House by Satish Jassal Architects
Shawm House by Mawson Kerr Architects
Sussex House by Wilkinson King Architects

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House by Tikari Works Architects.

Food and Climate Change

without the hot air S L Bridle 2020-09-03 Did you know that more than a quarter of the greenhouse-gas emissions that cause climate change come from food? In this groundbreaking and accessible book, Professor Sarah Bridle calculates the greenhouse gas emissions of a selection of our most popular meals and beverages, from a cup of tea and a bowl of cereal to spaghetti bolognese and chicken tikka masala. Breaking down different ingredients and cooking methods to reveal their environmental impact, she finds delicious and sustainable meal alternatives. With this knowledge, we can make a conscious effort to lower our emissions, such as eating more locally grown

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eating healthier food. As well as explaining how our food choices impact the environment and giving practical advice on how to lower emissions, *Food and Climate Change without the hot air* considers how climate change will affect the food of the future. A rigorously researched discussion of how food and climate change are intimately connected, Bridle also dives into the important topic of food waste and gives valuable tips to avoid leftovers. Illustrated in full colour throughout, this is an essential resource for anyone with eco-anxiety looking for quick and easy ideas to become more sustainable.

The Housing Design Handbook David Levitt 2018-10-04 Everyone deserves a decent and affordable home, a truth (almost) universally acknowledged. But housing in the UK has been in a state of crisis for decades

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with too few homes built, too often of dubious quality, and costing too much to buy, rent or inhabit. It doesn't have to be like this. Bringing together a wealth of experience from a wide range of housing experts, this completely revised edition of The Housing Design Handbook provides an authoritative, comprehensive and systematic guide to best practice in what is perhaps the most contentious and complex field of architectural design. This book sets out design principles for all the essential components of successful housing design - including placemaking, typologies and density, internal and external space, privacy, security, tenure, and community engagement - illustrated with case studies of schemes by architecture practices working across the UK and

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recognised authorities in the field - and with contributions from more than twenty other leading practitioners, The Housing Design Handbook is an essential reference for professionals and students in architecture and design as well as for government bodies, housing associations and other agencies involved in housing.

EnerPHit James Traynor
2020-02-05 In order to meet UK Carbon reduction commitments for 2020 and 2050 building owners will be required to upgrade their buildings to meet an increasingly stringent set of energy performance requirements. In the absence of any clear advice from UK Government on how this can be achieved, the EnerPHit standard offers a very clear methodology. This is a practical guide that gives architects the tools to retrofit buildings to the highest EnerPHit standard. It equips the reader with

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the key information on EnerPHit (as the most effective benchmark for performance), the practical know-how and tips to ensure effective retrofit throughout all Plan of Work stages of a project to the EnerPHit standard. Backed with real-life case studies, it enables you to understand how to achieve successful outcomes tailored to suit available budgets and programmes.

The Environmental Design Pocketbook Sofie Pelsmakers 2019-10-23 The Environmental Design Pocketbook 2nd ed places the information you need for sustainable, low energy building design at your fingertips. Packed with diagrams, tools and tips, it cuts through the complex mass of technical data and legislation that faces the designer, and distils all the key guidance into a single reference that is quick, easy

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most important. This 2nd edition is now fully up-to-date with the latest Building Regulations Part L and F legislation (England and Wales), RIBA Plan of Work 2013, new information on the Green Deal and Zero Carbon and contains revised references and further reading sections throughout. Whether used in the classroom, office or on-site, the book guides the designer through the entire process; from the fundamentals to the building details. From future-proofing for a changing climate to rainwater harvesting, retrofit, and zero-carbon technologies - the Pocketbook has got it covered.

Understanding Passivhaus Emma Walshaw 2020-09-08 Understanding Passivhaus is a simple guide to the Passivhaus standard. The book explains the principles behind Passivhaus thinking, and explores numerous

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construction methods for achieving the Passivhaus standard. What is Passivhaus? Why design a Passivhaus? PHPP Certification Principles of Passivhaus Design Technical requirements Building fabric Form factor Insulation Thermal bridge Airtightness and air leakage Building services and ventilation Windows Solar design Shading Summer ventilation Roof lights Types of Construction Masonry construction Timber frame Structural Insulated Panels (SIPS) Insulated Concrete Formwork (ICF) Mixed methods of construction Construction Details Solid concrete with rendered external insulation Insulated concrete formwork Solid masonry with larsen trusses Masonry cavity wall Timber frame with larsen trusses Timber I joist frame SIPS construction Timber frame

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Wonderful examples of
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Passivhaus designs and construction methods, with more case studies added for this second edition.

Positive Energy Homes

Robin Brimblecombe

2017-05-01 Positive energy homes enable people to live healthy and comfortable lives with energy left over to share. Creating a house you love that produces surplus energy is surprisingly easy with a thorough

understanding of how buildings work and careful attention to detail in construction. The Passive House standard, with its well-proven track record, forms the basis for creating positive energy homes. This book explores the Passive House 'fabric first' approach, as well as the science and practicalities of effective ventilation strategies, smart options for heating and cooling, daylight harvesting, and efficient lighting and appliances. Positive Energy Homes provides home

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architects and builders with an understanding of the principles and technical details of building these houses.

Details for Passive Houses: Renovation IBO

Österreichisches Institut für Baubiologie und -ökologie
2017-01-01 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

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individual solutions. The book is a must-have reference manual for designers and building owners who want to refurbish properties to a sustainable standard. The New Net Zero Bill Maclay 2014 The new threshold for green building is not just low energy, it's net-zero energy. In The New Net Zero, sustainable architect Bill Maclay charts the path for designers and builders interested in exploring green design's new-frontier net-zero-energy structures that produce as much energy as they consume and are carbon neutral. In a nation where traditional buildings use roughly 40 percent of the total fossil energy, the interest in net-zero building is growing enormously--among both designers interested in addressing climate change and consumers interested in energy efficiency and long-term savings. Maclay, an award-winning

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designer whose buildings have achieved high-performance goals at affordable costs, makes the case for a net-zero future; explains net-zero building metrics, integrated design practices, and renewable energy options; and shares his lessons learned on net-zero teambuilding.

Designers and builders will find a wealth of state-of-the-art information on such considerations as air, water, and vapor barriers; embodied energy; residential and commercial net-zero standards; monitoring and commissioning; insulation options; costs; and more.

The comprehensive overview is accompanied by several case studies, which include institutional buildings, commercial projects, and residences.

Both new-building and renovation projects are covered in detail. The New

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Net-Zero Guide for Architects, Engineers, Contractors, and Retrofitting Buildings for Zero Energy

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suitable for nonprofessionals seeking ideas and strategies on net-zero options that are beautiful and renewably powered.

The Eco-Home Design Guide

Christopher Day
2015-10-29 The key principles of designing a pleasant, comfortable and healthy eco-home, with a foreword written by HRH The Prince of Wales, now King Charles III. Designing an eco-home is much more about working with your house's location and situation than relying on intrusive technology and hi-tech materials. With the soaring energy bills and the climate crisis, it is now more important than ever to invest in a home that is considerate of keeping heat in. In this handbook, architect Christopher Day draws on his extensive experience to explain the key principles of eco-home design, using common-sense methods. Packed full of practical information,

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includes several case studies of eco-homes, reviewing (with hindsight) what worked well and what could have been better. There is also guidance on how to generate energy, upgrading old buildings, and site planning. With beautifully hand-drawn illustrations, Christopher explores how to use local topography, combined with landscaping, to improve your home's microclimate and keep your house dry and warm in the winter, and cool in the summer. There are also handy tips on how to minimise hidden environmental impacts, and ideas on ways to make your home a safe and healthy place, both emotionally and physically. The Eco-Home Design Guide is essential for anyone who wants to create a attractive, environmentally friendly home that is in harmony with its location.

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The Hempcrete Book
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William Stanwix 2014-10-09
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manual for professionals and self-builders, this innovative book explains the many benefits of building with hempcrete. Hempcrete is a building material with excellent, environmentally friendly properties. It's made from lime and hemp shivs (a waste product from hemp fibre growing) and can be used for walls, floor and roof insulation. Hempcrete is breathable, absorbing and emitting moisture; this helps regulate internal humidity, avoiding trapped moisture and mould growth, and creating healthier buildings. It provides excellent acoustic and thermal insulation, and it is lightweight, which reduces construction costs. Whether you're working on a new build or are planning a renovation, The Hempcrete Book tells you everything you need to know to get started with hempcrete. It describes how to source and mix it, and provides a detailed account of

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construction techniques, highlighting potential pitfalls and how to avoid them. With fully illustrated design notes and examples of completed builds, this book is a powerful tool for any eco-builder.

An Introduction to Passive House Justin Bere
2019-07-25 Throughout the world, Passive House is now recognised as the best method to create comfortable, healthy, low energy buildings and it is a key component of the 21st century's green economic revolution. Written by one of the UK's leading passive house architects, this book contains essays that reveal the technical and creative secrets of Passive House design, as well as containing case studies of some of the world's best examples of beautiful, technically excellent buildings that still feel great even when the power supply

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or construction professional, this book is an enlightening introduction to Passive House and a valuable source of inspiration.

Building with Straw Bales Barbara Jones
2015-05-29 An updated, fully revised, full-colour edition of the definitive manual on building with straw bales, described by Grand Designs as an 'essential guide'. Straw-bale buildings are cost-effective, easy to build and highly energy efficient, enabling you to design and build beautiful, environmentally friendly buildings. Written with non-experts in mind, Barbara Jones uses her years of experience in natural building methods to guide self-builders and architects building with straw as a sustainable material for a diverse range of comfortable and environmentally friendly buildings. Building with Straw Bales takes you through everything you

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need to know in an easy, accessible way. This includes design principles, the different types of foundations, how to raise and stabilise walls and protect them from the weather, including a detailed analysis of how straw performs with humidity and how straw bale buildings can easily meet building regulation requirements, as well as detailed information on lime and clay plaster finishes. Now in full colour for the first time, the beautiful photographs throughout this practical guide illustrate the design and build techniques described and showcase the diverse possibilities of straw bale building. The fully revised text includes step-by-step illustrations of key techniques, and also looks at the full international context of building with straw bales. This book is

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their design.

Community Energy

Gordon Cowtan 2017-09-01

Packed with useful information, this is an essential resource for anyone thinking of setting up and running a community energy project. 'Community energy' is often seen as simply groups of people setting up wind turbines or hydroelectric schemes, yet there's actually a lot more going on in the range of activities that community energy groups are involved in, and the impact these have.

Community Energy provides an overview of the role of community renewable energy projects in the UK, examining the history of community renewable projects and the different types of project that have been successful and unsuccessful. An engaging and informative guide, it covers an introduction to renewable energy projects, information on why they matter and ways to get

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involved, and different scales and types of project. It also includes case studies and financial and legal tips on how to generate income from the project, as well as guidance on policy and planning permission.

Community Energy is a handy resource for anyone thinking of embarking on a community renewables project as well being a useful source of information for people in the renewables industry and policy makers at all levels of government.

Sustainable Home

Refurbishment David Thorpe 2010-09-23 A retrofit offers many benefits: cutting electricity and heating bills, increasing the resale value of homes, slashing carbon emissions and creating a healthier place to live. This book is the guide to making it happen. It looks at: draught-proofing, insulation and damp ventilation, heating

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materials' life cycles and incorporating nature protection from climate change impacts - modelling energy flows and embodied energy how we can meet the need to cut carbon emissions from dwellings by eighty percent by 2050.

Projects can apply to apartment blocks, recent builds and older, solid-walled properties. Enlivened with helpful diagrams and photographs, plus plenty of pointers for further information, it provides a comprehensive resource handbook for any building professional and contractor, students - or any homeowner serious about efficiency (cash and carbon) savings.

Design and Construction of High-performance Homes

Franca Trubiano 2013 Both professionals and students are increasingly committed to achieving high-performance metrics in the design, construction and operation of residential buildings. This

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responds to this demand by offering a comprehensive guide which features: architectural innovations in building skin technologies which make lighter more transparent buildings high performing energy-free architectural design principles and advances in building-integrated photovoltaics essential engineering principles, controls and approaches to simulation for achieving net zero the advantages of integrated design in residential construction and the challenges and opportunities it engenders detailed case studies of innovative homes which have incorporated low-energy design solutions, new materials, alternative building assemblies, digital fabrication, integrated engineering systems and operational controls. Divided into four parts, the book discusses the requisite

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needed when building a high-performance home. It also communicates this information across four case studies, which provide the reader with a thorough overview of all aspects to be considered in the design and construction of sustainable homes. With contributions from experts in the field, the book provides a well-rounded and multi-faceted approach. This book is essential reading for students and professionals in design, architecture, engineering (civil, mechanical and electrical), construction and energy management. Pretty Good House Michael Maines 2022-05-24 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 **Downloaded from** via.ramtech.uri.edu on September 24, 2023 by Arnold m Williamson

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.

Architect's Guide to NEC4

Frances Forward
2019-06-27 This user friendly guide introduces, explains, and demystifies the NEC4 contract on a practical, work-based level. Made for architects by an architect, it explores the best approach to collaborative and contractual partnering work practices. Alongside explanations of the contracts and clauses, it presents the key areas of distinction from alternative standard form contracts and

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NEC4 contracts together as a whole. It's the perfect companion book for professionals who are new to the NEC contract family and former users trying to understand the latest updates.

Designed to Perform

Tom Dollard 2019-07-25 This book is an illustrated practical design guide to delivering better energy performance in all types of new build homes. It takes the form of an annotated details book, with photos taken from live construction sites, with the content based around diagrams, drawings and photos by the author, which demonstrates valuable best practice knowledge and advice.

Chapter 1 is an introduction to the performance gap and the quality of design and construction in new build homes, explaining the typical construction sequence of homebuilding, and highlights common issues that designers need to engage with.

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2-7 look at each construction fabric in turn, including a series of detailed drawings, diagrams and photos illustrating the key elements of good design. Chapter 8 contains a checklist of all performance gap issues that designers need to look for. This book will provide valuable guidance to architects and designers on how to improve their detailing at construction stage, and therefore the overall quality of design and performance of new homes.

The 'One Planet' Life

David Thorpe 2014-11-13

The One Planet Life demonstrates a path for everyone towards a way of life in which we don't act as if we had more than one planet Earth. The difference between this approach and others is that it uses ecological footprint analysis to help to determine how effective our efforts are.

The book is a manual - with examples - of how to live the 'good life'

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and supply over 65% of your livelihood from your land with mostly positive impacts upon the environment. It examines the pioneering Welsh policy, One Planet Development, then considers efforts towards one planet living in urban areas. After a foreword by BioRegional/One Planet Living co-founder Pooran Desai and an introduction by former Welsh environment minister Jane Davidson, the book contains: An essay arguing that our attitude to planning, land and development needs to change to enable truly sustainable development. Guidelines on finding land, finance, and creating a personal plan for one planet living. Detailed guides on: sustainable building, supplying your own food, generating renewable energy, reducing carbon emissions from travel, land management, water supply and waste treatment. 20 exemplary examples of all

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scales - from micro-businesses to suburbs - followed by Jane Davidson's Afterword. The book will interest anyone seeking to find out how a sustainable lifestyle can be achieved. It is also key reading for rural and built environment practitioners and policy makers keen to support low impact initiatives, and for students studying aspects of planning, geography, governance, sustainability and renewable energy.

Grand Designs Handbook

Kevin McCloud 2009
Packed with tools and tips, this essential guide provides the instructions any aspiring self-builder needs to ensure that their vision becomes reality. Organized into three main sections—Thinking, Dreaming, and Doing—guidelines are provided that cover every aspect of the build, from finding a plot, obtaining planning permission, and commissioning and briefing architects to users and builders up

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through implementing the build itself. Structured around fundamental locations—urban, suburban, and rural—a host of successful projects are featured, including, a reinvented violin factory, a converted barn, and a glass pavilion on a beach. Suggestions for using green design and building techniques are also provided. DIVDIV Kevin McCloud is an interior designer and the author of several books, including Bathrooms, Choosing Colors, Grand Designs, Grand Designs Abroad, and Lighting Style.

The Passivhaus

Handbook Janet Cotterell
2012 An essential guide for anyone wanting to realize a supremely comfortable, healthy, and durable home with exceptionally low energy costs, this book brings together current thinking and best practice in Passivhaus design. This type of design focuses on getting the build

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right, to achieve ultralow energy consumption in the most cost-effective manner. The approach is relevant to a wide range of building types and climates. Whether you are building an extension, retrofitting your house or starting from scratch, and whether you are new to low-energy design or already have some experience, this book will help you navigate around the potential pitfalls and misconceptions. The book includes a clear explanation of the underlying building physics and terminology; detailed information on key elements of Passivhaus: avoiding air leakage, designing out thermal (cold) bridges, moisture management, and ventilation strategy. It offers practical advice on setting up a project, including developing a motivated project team, and a discussion of economic considerations and the policy context in the UK. As

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resources increases and energy prices continue to rise, the Passovhaus approach, proven over 20 years, meets the challenge of ultralow-energy building for the future.

The Greened House

Effect Jeff Wilson 2013

Describes how to give residential buildings a Deep Energy Retrofit, a whole-home makeover that will make any home cleaner, greener, more comfortable, and healthier.

Eco-Homes Doctor Jenny

Pickerill 2016-01-15

It is widely understood that good, affordable eco-housing needs to be at the heart of any attempt to mitigate or adapt to climate change. This is the first book to comprehensively explore eco-housing from a geographical, social and political perspective. It starts from the premise that we already know how to build good eco-houses and we already have the technology to retrofit existing housing. Despite

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this, relatively few eco-houses are being built. Featuring over thirty case studies of eco-housing in Britain, Spain, Thailand, Argentina and the United States, *Eco-Homes* examines the ways in which radical changes to our houses - such as making them more temporary, using natural materials, or relying on manual heating and ventilation systems - require changes in how we live. As such, it argues, it is not lack of technology or political will that is holding us back from responding to climate change, but deep-rooted cultural and social understandings of our way of life and what we expect our houses to do for us.

The Greenest Home Julie Torres Moskovitz

2013-06-04 Passive is the new green. Passive Houses—well insulated, virtually airtight buildings—can decrease

home energy consumption by an astounding 90 percent, making them not

just better for the environment but also more comfortable and cost-effective. *The Greenest Home* is a practical guide to constructing and retrofitting buildings for high performance. Adam Dadeby Pdf Pdf upload Arnold m Williamson

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.

The Green Self-build Book Jon Broome

2007-07-06 Build your home the 'green' way to reduce running costs, be more self-sufficient and comfortable

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comfortable home. Whether you want a turf roof, solar-powered hot water, or a super-insulated house, this book demonstrates that green is the way forward. Written by award-winning architect Jon Broome, *The Green Self-Build Book* provides an accessible overview of the different methods of sustainable and eco-friendly construction techniques. Covering the essential elements of design and the self-build process, this practical book includes information on sustainable foundations, floor finishes and insulation. Jon also shares insights on how to build for comfort and health. Inspiring case studies of green building projects using earth, straw, steel and timber are also included. Packed with attractive colour photos throughout, this is an essential resource for anyone who is planning a self-build project or involved in housing.

The Passivhaus Handbook
Self-Build Guide to Constructing And Retrofitting Buildings For
The Passivhaus
Performance Adam
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Handbook Janet Cotterell

2021-10-14 An essential guide to making a supremely comfortable, healthy and durable home with exceptionally low energy costs. Covers both retrofitting and new-build.

Materials for Architects and Builders Arthur Lyons

2019-08-28 *Materials for Architects and Builders* provides a clear and concise introduction to the broad range of materials used within the construction industry and covers the essential details of their manufacture, key physical properties, specification and uses. Understanding the basics of materials is a crucial part of undergraduate and diploma construction or architecture-related courses, and this established textbook helps the reader to do just that with the help of colour photographs and clear diagrams throughout. This new sixth edition has been completely revised and

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updated to include the latest developments in materials research, new images, appropriate technologies and relevant legislation. The ecological effects of building construction and lifetime use remain an important focus, and this new edition includes a wide range of energy-saving building components.

Old House Eco Handbook

Roger Hunt 2019-09-17

How should we go about making old houses energy efficient without devaluing future sustainability or the appeal and character of old homes by the use of inappropriate solutions? This practical and essential guide to retrofitting for energy efficiency seeks to provide answers to this and other the questions homeowners of old houses are asking. Whether your house is medieval and timber-framed or a Georgian, Victorian or Edwardian terrace, it can be made more energy efficient

*The Passivhaus Handbook
Georgian, Victorian
Constructing And
Edwardian Terrace
Retrofitting Buildings For
Ward.com Energy
Performance Adam
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and sustainable, and this practical and comprehensive handbook will show you how. Revised and updated throughout, and with a foreword by Kevin McLoud, Old House Eco Handbook includes chapters on the building envelope; roofs and ceilings; windows and doors; walls; floors; paints; energy, air and water; plus a brand new chapter on retrofit materials. In association with The Society for the Protection of Ancient Buildings, this is a must have for owners of old houses looking to make their homes more energy efficient and sustainable. Chapters Include: 1. Old houses can be green 2. Old house to eco house 3. The building envelope 4. Retrofit materials 5. Roofs and ceilings 6. Windows and doors 7. Walls 8. Floors 9. Paints 10. Energy, air and water 11. Old house for the future

Passive House Details

Donald B. Corn

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2017-08-09 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.

The Passive House Handbook
Practical Guide To
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Wiseman 2014-07-21 For
Retrofitting Buildings For
Ultra-Low Energy
Performance
Adam
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criticized for speaking an insular language, known to some as "archispeak." Writing Architecture considers the process, methods, and value of architecture writing based on Carter Wiseman's 30 years of personal experience in writing, editing, and teaching in young architects how to write. This book creatively tackles a problematic issue that Wiseman considers to be a crucial characteristic of successful architecture writing: clarity of thinking and expression. He argues that because we live our lives within the built environment, architecture is the most comprehensive and complex of all art forms. Even brilliantly inspired and complex architectural structures would only amount to misunderstood abstractions without the support and reinforcement of the clear explanation. Written as a primer for both college level students and practitioners,

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Writing Architecture acknowledges and explores the boundaries between different techniques of architecture writing from myriad perspectives and purposes. A poetic description of the beauty and impact of a bridge will not illuminate the mechanical knowledge housed in the structure, but at the same time, dense architectural theory will not encourage individuals experiencing and supporting the bridge to perceive significance and usefulness in the design. Using excerpts and from writers in different genres and from different historical periods, Wiseman offers a unique and authoritative perspective on comprehensible writing skills needed for success.

Routledge International Handbook of Sustainable Development Michael Redclift, 2015-03-02 This

The Passivhaus Handbook
A Handbook Guide To a Comprehensive
Constructing And Retrofitting Buildings For Ultra-Low Thermal Performance
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edge overview of Sustainable Development. It integrates the key imperatives of sustainable development, namely institutional, environmental, social and economic, and calls for greater participation, social cohesion, justice and democracy as well as limited throughput of materials and energy. The nature of sustainable development and the book's theorization of the concept underline the need for interdisciplinarity in the discourse as exemplified in each chapter of this volume. The Handbook employs a critical framework that problematises the concept of sustainable development and the struggle between discursivity and control that has characterised the debate. It provides original contributions from international experts coming from a variety of disciplines and regions, including the Global South. Comprehensive Download from

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covers, amongst other areas: Sustainable architecture and design Biodiversity Sustainable business Climate change Conservation Sustainable consumption De-growth Disaster management Eco-system services Education Environmental justice Food and sustainable development Governance Gender Health Indicators for sustainable development Indigenous perspectives Urban transport The Handbook offers researchers and students in the field of sustainable development invaluable insights into a contested concept and the alternative worldviews that it has fostered.

Solar Energy Arno Smets 2016-01-28 This book provides a broad overview on the different aspects of solar energy, with a focus on photovoltaics, which is the technology that allows light energy to be converted into electric energy.

*The Passivhaus Handbook
Light and Guide To
Constructing And
Retrofitting Buildings For
High Energy sources
Performance Adam
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have become increasingly popular in recent years, and solar is one of the most adaptable and attractive types - from solar farms to support the National Grid to roof panels/tiles used for solar thermal heating systems, and small solar garden lights. Written by Delft University researchers, Solar Energy uniquely covers both the physics of photovoltaic (PV) cells and the design of PV systems for real-life applications, from a concise history of solar cells components and location issues of current systems. The book is designed to make this complicated subject accessible to all, and is packed with fascinating graphs and charts, as well as useful exercises to cement the topics covered in each chapter. Solar Energy outlines the fundamental principles of semiconductor solar cells, as well as PV technology: crystalline silicon solar cells

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cells, PV modules, and third-generation concepts. There is also background on PV systems, from simple stand-alone to complex systems connected to the grid. This is an invaluable reference for physics students, researchers, industrial engineers and designers working in solar energy generation, as well those with a general interest in renewable energy.

Contemporary Vernacular Design Clare Nash
2019-08-13 This book presents 25 international housing schemes that draw on traditional vernacular principles whilst taking into account modern day materials, methods and financial or energy requirements. The aim is to show how, despite mass housing needs, we can design quality modern schemes that 'fit' their surroundings and generate a sense of place, community and regional identity -

The Passivhaus Handbook
A Sense of Place, Community and Regional Identity - Retrofitting Buildings For High Quality Energy Performance Adam Dadeby Pdf Pdf upload
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identikit housing currently seen wherever you are in the UK.

The Passivhaus Designer's Manual Christina J. Hopfe
2015-10-05 Passivhaus is the fastest growing energy performance standard in the world, with almost 50,000 buildings realised to date. Applicable to both domestic and non-domestic building types, the strength of Passivhaus lies in the simplicity of the concept. As European and global energy directives move ever closer towards Zero (fossil) Energy standards, Passivhaus provides a robust 'fabric first' approach from which to make the next step. The Passivhaus Designers Manual is the most comprehensive technical guide available to those wishing to design and build Passivhaus and Zero Energy Buildings. As a technical reference for architects, engineers and construction professionals The Passivhaus Designers Manual provides a

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the art guidance for anyone designing or working on a Passivhaus project; In depth information on building services, including high performance ventilation systems and ultra-low energy heating and cooling systems; Holistic design guidance encompassing: daylight design, ecological materials, thermal comfort, indoor air quality and economics; Practical advice on procurement methods, project management and quality assurance; Renewable energy systems suitable for Passivhaus and Zero Energy Buildings; Practical case studies from the UK, USA, and Germany amongst others; Detailed worked examples to show you how it's done and what to look out for; Expert advice from 20 world renowned Passivhaus designers, architects, building physicists and engineers. Lavishly illustrated with nearly 200 full colour illustrations, and presented by two highly

*The Passivhaus Handbook
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Retrofitting Buildings For
High Performance*
Presented by
*Adam
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experienced specialists, this is your one-stop shop for comprehensive practical information on Passivhaus and Zero Energy buildings. **Handbook of Research on Global Challenges for Improving Public Services and Government Operations** Babao?lu, Cenay 2020-11-20 As the field of public administration has been changing due to globalization, government reforms, and increasing governance practices within intergovernmental networks, research and teaching in public administration also adapted itself to these changes. Public policy research and instruction has become transformed and has diffused into other countries with the help of international organizations and other agents of change and transfer. Research in this field is seen as an opportunity for a definitive shift from traditional models of public administration. Downloaded from via.ramtech.uri.edu on September 24, 2023 by Arnold m Williamson

the sense that policies may be better designed, articulated, and governed through a collaborative approach, while service provision could be enhanced in terms of proximity, representativeness, and innovativeness. The Handbook of Research on Global Challenges for Improving Public Services and Government Operations provides comprehensive approaches to the study of public administration and public policy from a comparative perspective and includes sound theories and concepts for understanding opportunities and challenges governments face when seeking to improve public services and government operations. The book is a compilation of selective high-quality chapters covering cases, experiences, and practical recommendations on topics related to public

*The Passivehaus Handbook
A Practical Guide To
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Ultra-Low Energy
Performance* Adam
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affairs. This book is ideal for policymakers, students, and researchers in the field of public administration, public policy, governance, public management, public affairs, citizen engagement, and administrative sciences and management along with practitioners, stakeholders, and academicians interested in the best practices of various countries in public administration and policy. *PHPP Illustrated* Sarah Lewis 2017 Fully-revised and updated, this new edition provides essential updates on the latest version of the Planning Package - an essential read for any architects, designers and students wanting utilise the PHPP as a design tool.

The Hempcrete Book
William Stanwix 2014-10-09
A comprehensive practical manual for professionals and self-builders, this innovative book explains the many benefits of building with hempcrete. Hempcrete is a building material
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excellent, environmentally friendly properties. It's made from lime and hemp shivs (a waste product from hemp fibre growing) and can be used for walls, floor and roof insulation. Hempcrete is breathable, absorbing and emitting moisture; this helps regulate internal humidity, avoiding trapped moisture and mould growth, and creating healthier buildings. It provides excellent acoustic and thermal insulation, and it is lightweight, which reduces

construction costs. Whether you're working on a new build or are planning a renovation, *The Hempcrete Book* tells you everything you need to know to get started with hempcrete. It describes how to source and mix it, and provides a detailed account of construction techniques, highlighting potential pitfalls and how to avoid them. With fully illustrated design notes and examples of completed builds, this book is a powerful tool for any eco-builder.