

Download Ebook The Passivhaus Handbook A Practical Guide To Constructing And Retrofitting Buildings For Ultra Low Energy Performance Adam Dadeby Pdf File Free

The Passivhaus Handbook The Passivhaus Designer’s Manual Marco Polo Passive House Details Understanding Passivhaus The Passivhaus Designer’s Manual An Introduction to Passive House PHPP Illustrated The Environmental Design Pocketbook Details for Passive Houses: Renovation A Handbook of Sustainable Building Design and Engineering Passive Houses Positive Energy Homes Old House Eco Handbook Passive House in Different Climates EnerPHit The Housing Design Handbook The Greenest Home Contemporary Vernacular Design Sustainable Home Refurbishment Small Projects Handbook 101 Rules of Thumb for Low Energy Architecture Designed to Perform Grand Designs Handbook Botanical Buildings Dry Construction Toward a Zero Energy Home Kick the Habit Understanding Architectural Details Passive Solar Architecture Pocket Reference The Transition Handbook Austerity Ecology & the Collapse-Porn Addicts The Green Self-build Book Guide to Building Control Self-build Pretty Good House Aktivhaus - The Reference Work Facilities Manager's Desk Reference Architectural Detailing External Timber Cladding

Toward a Zero Energy Home Feb 03 2021 The authors of "Green from the Ground Up" explore the design and construction of self-sufficient houses. With unequaled knowledge and a passion for the subject, the authors walk readers through the process of building and living in a truly green home.

Positive Energy Homes Apr 17 2022 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 owners world-wide, architects and builders with an understanding of the principles and technical details of building these houses.

The Passivhaus Designer’s Manual Nov 24 2022 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: State of 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 experienced specialists, this is your one-stop shop for comprehensive practical information on Passivhaus and Zero Energy buildings.

The Passivhaus Handbook Apr 29 2023 An essential guide to making a supremely comfortable, healthy and durable home with exceptionally low energy costs. Covers both retrofitting and new-build.

Pretty Good House Apr 24 2020 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.

Designed to Perform Jun 07 2021 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. Chapters 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.

Botanical Buildings Apr 05 2021 * The newest book from Wonderplants author Judith Baehner* An inspiring book full of striking images, clear ideas and beautiful projects, with drawings and plans that illustrate how everything works* Covers a 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 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.

The Environmental Design Pocketbook Aug 21 2022 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 to use and points to the facts, figures and performance data that are 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.

Guide to Building Control Jun 26 2020 To clarify the practical requirements of the Building Regs and help you meet their requirements first go, all the information contained in the building regulations 2010 and approved documents is presented here in an easy-to-understand format, clear, concise and fully illustrated. Guidance is given for domestic buildings of up to three storeys in England and Wales, including extensions, loft conversions, new dwellings, conversions (garages, basements and barns), and upgrading of existing buildings - including the use of natural lime mortars, plasters renders and paints. There are clear explanations of how the technical design and construction requirements of the Building Regs can be met with sufficient information to draw up an effective specification and design to be developed. Guide to Building Control illustrates the design and construction of the various building elements and explains the principles and processes of the building regulations and approved documents - including structure, fire safety, contaminants, sound insulation, ventilation, water efficiency, drainage systems, combustion appliances, stairs and guarding, energy conservation/green building issues, disabled access, safety glazing, electrical safety, materials and workmanship. The Guide contains up-to-date examples of everyday practices and procedures gained by the author - a practicing building control surveyor - from years of responding to requests from property professionals, builders, property owners and students for clarification of the practical requirements of the building regulations. Accompanied by detailed diagrams, tables and text offering an enlightened understanding of the complexities of building regulations the Guide is both an authoritative reference for use at planning stage and a practical handbook on site. Students and professionals will find it an essential, easy-to-use resource for building control surveyors, building designers, building contractors, self-build, and others working in the construction industry.

Understanding Passivhaus Dec 25 2022 Understanding Passivhaus is a simple guide to the Passivhaus standard. The book explains the principles behind Passivhaus thinking, and explores numerous 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 with external render Case Studies A selection of wonderful examples of Passivhaus designs and construction methods, with more case studies added for this second edition.

The Housing Design Handbook Dec 13 2021 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, 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 continental Europe. Written by David Levitt and Jo McCafferty – two 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.

101 Rules of Thumb for Low Energy Architecture Jul 08 2021 101 Rules of Thumb set out the essential elements of low energy architecture in a fresh, intuitive way. In an area where ever-changing technology and complex legislation and can cloud the designer’s thought-processes, this book encourages the designer to think clearly and intuitively about the fundamentals of low energy buildings. With reliable, simple rules of thumb that will provide new ideas and refresh the designer’s palette, each page focuses on a single piece of advice or guidance along with a clear hand-drawn illustration, while there are also plenty of tips and more detailed information for those who wish to dig deeper. The emphasis is on passive low-energy principles, and the rules of thumb cover all the design fundamentals from site and location to orientation and form, peppered with some which will help the designer to think ‘outside the box’ about the design process itself.

Details for Passive Houses: Renovation Jul 20 2022 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.

A Handbook of Sustainable Building Design and Engineering Jun 19 2022 The combined challenges of health, comfort, climate change and energy security cross the boundaries of traditional building disciplines. This authoritative collection, focusing mostly on energy and ventilation, provides the current and next generation of building engineering professionals with what they need to work closely with many disciplines to meet these challenges.A Handbook of Sustainable Building Engineering covers: how to design, engineer and monitor a building in a manner that minimises the emissions of greenhouse gases; how to adapt the environment, fabric and services of existing and new buildings to climate change; how to improve the environment in and around buildings to provide better health, comfort, security and productivity; and provides crucial expertise on monitoring the performance of buildings once they are occupied. The authors explain the principles behind built environment engineering, and offer practical guidance through international case studies.

Dry Construction Mar 04 2021 Detail-Practice: Dry Construction provides an overview of the most widely used dry construction systems, organized according to the building components wall, ceiling, and floor and their applications. The volume is conceived as a practical manual for design and planning. Dry construction in interior design employs "dry construction systems" in place of moisture-retaining materials such as concrete and plaster. Not only is this construction method cost-effective, since the full range of physical requirements, including thermal, cold, and sound insulation, fire safety, etc., can be satisfied. Thanks to the use of new material technologies, it also affords the designer nearly unlimited freedom, since the surfaces involved are almost infinitely malleable as well as multifunctional, capable of assuming the tasks of lighting, heating, and cooling. The general section is supplemented by examples from existing projects with clearly visible reference details as well as from special constructions, for example, in damp locations. The book shows the potential this construction method obtains from the use of new materials and construction systems. As in the preceding volumes of the series, standard drawings are used to illustrate common construction details. Karsten Tichelmann is the director of the Institut für Trocken- und Leichtbau (Institute for Dry and Lightweight Construction) at the Technische Universität Darmstadt (Darmstadt University of Technology). Jochen Pfau is professor of light-tech, dry, and lightweight construction at the Technische Universität Darmstadt. Both are authors of the Trockenbau Atlas (Dry Construction Manual) published by the R. Müller Verlag (available in German only).

Small Projects Handbook Aug 09 2021 This hands-on, no-nonsense guide to running smaller projects – most under £250,000 in value – will become your 'bible' in day-to-day practice. Smaller practices often find it hard to turn a profit as they spend too much time and money, especially on the design stages, trying to compete and are unsure as to what they can safely dispense with whilst still being rigorous and delivering quality. This book provides reassurance as to how to achieve great results on a budget, utilising stripped-back and efficient solutions, while following the principles and stages of the RIBA Plan of Work. Each chapter provides: simple step-by-step guidance to the key tasks in that stage of the Plan of Work including inputs, outputs, stage activities and sustainability checkpoints in-text features which break down complex tasks and highlight best practice with pragmatic, real world advice including 'tips', 'warnings' and guidance on forms and templates inspiring case studies of small projects that document the architect's experience of the process guidance at each Plan of Work stage on the relevant practice issues that will help you to run your small project more effectively. Designed as a project handbook for smaller and medium sized architectural practices, it is also invaluable for Part 3 students getting to grips with how projects are run within the RIBA Plan of Work framework. Everybody in the project team – including clients, contractors and consultants – will find this a handy guide to the project process, full of useful insights and solutions.

Contemporary Vernacular Design Oct 11 2021 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 – rather than the poor quality, identikit housing currently seen wherever you are in the UK.

The Green Self-build Book Jul 28 2020 Whether you want a turf roof, solar-powered hot water, or a superinsulated (and cost-efficient) house, you need to know the essential elements of the self-build process, and in "The Green Self-Build Book," Jon Broome gives an overview of the different methods of sustainable and eco-friendly construction techniques. The book includes case studies of green building techniques such as earth and straw bale buildings and is intended for anyone who is planning a self-build project, housing professionals, students, and teachers. "The Green Self-Build Book" gives inspiration and information to guide you through the green self-build process.

The Greenest Home Nov 12 2021 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.

Understanding Architectural Details Dec 01 2020

Passive Houses May 18 2022 The new generation of ecological architecture building owners today are increasingly confronted with the question of energy efficiency. Depending on the climatic zone, passive houses require very different technologies, interventions and steps to be taken by the architects. This volume portrays 60 single family passive houses.

Grand Designs Handbook May 06 2021 DIV 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 and builders up 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 McClof and the author of several books, including Bathrooms, Choosing Colors, Grand Designs, Grand Designs Abroad, and Lighting Style.

Sustainable Home Refurbishment Sep 10 2021 A retro-fit 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 and cooling electrical efficiency and renewable energy water use and re-use 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.

The Passivhaus Designer’s Manual Mar 28 2023 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: State of 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 experienced specialists, this is your one-stop shop for comprehensive practical information on Passivhaus and Zero Energy buildings.

External Timber Cladding Dec 21 2019

Aktivhaus - The Reference Work Mar 24 2020 The first comprehensive reference work on energy-independent Active Houses The Active House is a logical development of existing building standards. It draws renewable energy from the sun and wind in order to cover energy needs as completely as possible. The basic ideas of the Active House are described in detail in this standard work and serve as a planning guide for all parties involved in the construction of Active Houses. From the principles of sustainable and energy efficient construction to planning tools and technical details, the reader learns what constitutes active houses, how they developed, and the components required for its construction. Active House architecture is illustrated by fourteen built works in the areas of residential, non-residential, new construction, and renovation.

Facilities Manager's Desk Reference Feb 21 2020 A practical guide to the principle services of facilities management, revised and updated The updated third edition of Facilities Manager's Desk Reference is an invaluable resource covering all the principal facility management (FM) services. The author—a noted facilities management expert—provides the information needed to ensure compliance to current laws, to deliver opportunities to adopt new ways of using built environments, and to identify creative ways to reduce operational occupancy costs, while maintaining appropriate and productive working environment standards. The third edition is fully updated and written in an approachable and concise format. It is comprehensive in scope, the author covering both hard and soft facilities management issues. Since the first edition was published it has become a first point of reference for busy facilities managers, saving them time by providing access to the information needed to ensure the safe, effective and efficient running of any facilities function. This important book: Has been fully updated, reviewing the essential data covering the principal FM services Is highly practical, ideal for the busy FM practitioner Presents information on legal compliance issues, the development of strategic policies, tactical best practices, and much more Is a time-saving resource that brings together essential, useful, and practical FM information in one handy volume; Written for students and professional facilities managers, Facilities Manager's Desk Reference is designed as a practical resource that offers FMs assistance in finding solutions to the myriad demands of the job.

Passive Solar Architecture Pocket Reference Oct 31 2020 This handy pocket reference contains a wealth of information on a range of topics including the principles of passive solar building and passive house, a ten-step design and build strategy, calculating solar irradiance, factors affecting the choice of building materials, passive heating and cooling principles and techniques in different climates, the Passivhaus Standard and natural and augmented lighting and notes on technology and building occupation. The book also includes conversion factors, standards, resources and is peppered throughout with helpful illustrations, equations, explanations, and links to further online resources. Ideal for practitioners, architects, designers, consultants, planners, home builders, students and academics, and those working in development contexts, the book is intended to act as an aide memoir, a reference supplement, a resource and an overview of the field. Rich in background detail, the book also includes at-a-glance tables and diagrams, equations and key definitions.

Self-build May 26 2020 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 needed to make your dream house a reality. Carefully crafted to offer friendly, 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 The Pocket House by Tikari Works Architects.

Architectural Detailing Jan 22 2020 The industry-standard guide to designing well-performing buildings Architectural Detailing systematically describes the principles by which good architectural details are designed. Principles are explained in brief, and backed by extensive illustrations that show you how to design details that will not leak water or air, will control the flow of heat and water vapor, will adjust to all kinds of movement, and will be easy to construct. This new third edition has been updated to conform to International Building Code 2012, and incorporates current knowledge about new material and construction technology. Sustainable design issues are integrated where relevant, and the discussion includes reviews of recent built works that extract underlying principles that can be the basis for new patterns or the alteration and addition to existing patterns. Regulatory topics are primarily focused on the US, but touch on other jurisdictions and geographic settings to give you a well-rounded perspective of the art and science of architectural detailing. In guiding a design from idea to reality, architects design a set of details that show how a structure will be put together. Good details are correct, complete, and provide accurate information to a wide variety of users. By demonstrating the use of detail patterns, this book teaches you how to design a building that will perform as well as you intend. Integrate appropriate detailing into your designs Learn the latest in materials, assemblies, and construction methods Incorporate sustainable design principles and current building codes Design buildings that perform well, age gracefully, and look great Architects understand that aesthetics are only a small fraction of good design, and that stability and functionality require a deep understanding of how things come together.

Architectural Detailing helps you bring it all together with a well fleshed-out design that communicates accurately at all levels of the construction process.

The Transition Handbook Sep 29 2020 "The Transition Handbook is a ground-breaking book that shows how we can move from feeling anxiety and fear in the face of "peak oil" to developing a positive vision and taking practical action to create a more self-reliant existence."--Cover.

Marco Polo Feb 27 2023 The incredible story of Marco Polo's journey to the ends of the earth has for the last seven hundred years been beset by doubts as to its authenticity. Did this intrepid Venetian really trek across Asia minor as a teenager, explore the length and breadth of China as the ambassador of the ruthless dictator, Kublai Khan, and make his escape from almost certain death at the hands of Kublai Khan's successors? Robin Brown's book aims to get to the truth of Marco Polo's claims. Covering his early life, his extraordinary twenty-four-year Asian epic and his reception in Italy on his return, 'Marco Polo' places the intrepid Venetian in context, historically and geographically. What emerges confirms the truth of Polo's account.

Polo, scholars now agree, opened vistas to the medieval mind and stirred the interest in exploration that prompted the age of the European ocean voyages. All who now enjoy the fruits of Marco Polo's incredible journey through Asia - whether in the form of spectacles, fireworks, pasta or any of the many products of the Silk Road - will find in Robin Brown's book a fascinating portrait of a man who made history happen by bringing about the meeting of East and West.

Old House Eco Handbook Mar 16 2022 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 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, airandwater; plus a brand newchapter 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

An Introduction to Passive House Oct 23 2022 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 is turned down to almost nothing. Whether you are an architect, client, student or construction professional, this book is an enlightening introduction to Passive House and a valuable source of inspiration.

Kick the Habit Jan 02 2021 This publication is written by experts from many disciplines and various countries, with leading research organizations involved in preparing and reviewing the publication. It presents solutions for individuals, businesses, cities and countries plus other groups that have similar characteristics such as NGO and intergovernmental organizations. The book contains case studies, illustrations, maps and graphics and serves also as reference publication.--Publisher's description.

EnerPHit Jan 14 2022 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 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.

Passive House in Different Climates Feb 15 2022 Passive House in Different Climates introduces the seven Passive House principles, to help you create super-insulated, airtight buildings that require minimal energy use to heat, cool, dehumidify, and ventilate, with superior indoor air quality and year-round comfort. Seventeen case studies in four climate zones---marine, cold and very cold, mixed-dry and hot-dry, and mixed-humid and hot-humid--and in ten countries, show you how to achieve net-zero energy regardless of where you're building or what type of building is required. Includes more than 150 color illustrations.

Passive House Details Jan 26 2023 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.

PHPP Illustrated Sep 22 2022 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.

Austerity Ecology & the Collapse-Porn Addicts Aug 29 2020 Economic growth, progress, industry and, erm, stuff have all come in for a sharp kicking from the green left and beyond in recent years. Everyone from black-hoodied Starbucks window-smashers to farmers' market heirloom-tomato-mongers to Prince Charles himself seem to be embracing 'degrowth' and anti-consumerism, which is nothing less than a form of ecological austerity. Meanwhile, the back-to-the-land ideology and aesthetic of locally-woven organic carrot-pants, pathogen-encrusted compost toilets and civilisational collapse is hegemonic. Yet modernity is not the cause of climate change and the wider biocrisis. It is indeed capitalism that is the source of our environmental woes, but capitalism as a mode of production, not the fuzzy understanding of capitalism of Naomi Klein, Bill McKibben, Derrick Jensen, Paul Kingsnorth and their anarcho-liberal epigones as a sort of globalist corporate malfeasance. In combative and puckish style, science journalist Leigh Phillips marshals evidence from climate science, ecology, paleoanthropology, agronomy, microbiology, psychology, history, the philosophy of mathematics, and heterodox economics to argue that progressives must rediscover their historic, Promethean ambitions and counter this reactionary neo-Malthusian ideology that not only retards human flourishing, but won't save the planet anyway. We want to take over the machine and run it rationally, not turn the machine off.

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