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KEY=MANUAL - JOSE KASEY

The Passivhaus Designer's Manual

A technical guide to low and zero energy buildings

Routledge 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.

Design for Micro-Combined Cooling, Heating and Power Systems Stirling Engines and Renewable Power Systems

Springer This book provides a manual for the technical and structural design of systems for supplying decentralised energy in residential buildings. It presents the micro-combined cooling, heating & power systems Stirling engines & renewable energy sources (mCCHP-SE-RES) systems in an accessible manner both for the public at large, and for professionals who conceive, design or commercialise such systems or their components. The high performance levels of these systems are demonstrated within the final chapter by the results of an experiment in which a house is equipped with a mCCHP-SE-RES system. The reader is also familiarized with the conceptual, technical and legal aspects of modern domestic energy systems; the components that constitute these systems; and advanced algorithms for achieving the structural and technical design of such systems. In residential buildings, satisfying demands of durable development has gradually evolved from necessity to obligation and institutionalisation. Consequently a major paradigm change has appeared in the supply of energy to residential buildings, from the centralised production of energy using fossil fuels to the decentralised production of energy using local renewable sources. Furthermore, on the energy system market, energy micro systems which use renewable energy sources are increasingly commercialised. From among these, the mCCHP-SE-RES systems are particularly striking because they offer a high performance and they enhance the relationship between humans and the environment. This book is intended for postgraduate students of electrical engineering, applied mathematicians, and researchers of modelling and control of complex systems or power system technologies.

Building Services Journal Towards Zero-energy Architecture New Solar Design

Quercus Publishing This book explores the theories, practices and principles of new approaches to solar architecture that foster both design excellence and low-energy

use. In response to the challenges of global warming and climate change, design and technology enable architects to achieve greater performance standards while at the same time developing an environmental aesthetic. The book showcases ten award-winning buildings to illustrate the aesthetic and technological design integration of solar response in contemporary zero-energy and low-energy architecture. For each project there is a detailed examination of the local climate, the design and construction, and the technology used to reduce energy use. *Towards Zero-energy Architecture* is a much-needed call for the design professions to redefine architecture to help solve ecological problems.

RIBA Journal

Architecture Today

Wind Energy: Renewable Energy and the Environment

CRC Press The utilization of wind power and other renewable energy sources has been growing at a phenomenal rate. *Wind Energy, Third Edition* explores the wind industry from its inception in the 1970s to today; presents the design, aerodynamics, operation, control, applications, as well as different types of wind turbines. An overview of energy examines world consumption and use of fossil fuels, and includes a section on global climate change. It covers the characteristics of wind, such as shear, power potential, and turbulence, and discusses the measurement and siting of individual wind turbines and wind farms. It also discusses the political and economic factors regarding the adoption of wind as an energy source. Features Includes updates throughout, and adds new material on wind forecasting, offshore wind, decommissioning and repowering wind farms, and more Illustrates the need for a shift to renewable energy through discussions on energy use and the order of magnitude estimates for the lifetime of fossil fuels Discusses the interconnection of wind turbines to utility grids, regulations on installation and operation, and the related environmental concerns Presents important economic considerations for the development of wind farms Provides an abundance of examples that highlight the real-world advantages of wind energy over fossil fuels

Light Steel Framing in Residential Construction

The Architects' Journal

Fundamentals of Integrated Design for Sustainable Building

John Wiley & Sons "Fundamentals of Integrated Design for Sustainable Building offers an introduction to green building concepts as well as design approaches that reduce and can eventually eliminate the need for fossil fuel use in buildings while also conserving materials, maximizing their efficiency, protecting the indoor air from chemical intrusion, and reducing the introduction of toxic materials into the environment. It represents a necessary road map to the future designers, builders, and planners of a post-carbon world." —from the Foreword by Ed Mazria A rich sourcebook covering the breadth of environmental building, *Fundamentals of Integrated Design for Sustainable Building* introduces the student and practitioner to the history, theory and technology of green building. Using an active learning approach, the concepts of sustainable architecture are explained and reinforced through design problems, research exercises, study questions, team projects, and discussion topics. Chapters by specialists in the green movement round out this survey of all the important issues and developments that students and professionals need to know. From history and philosophy to design technologies and practice, this sweeping resource is sure to be referenced until worn out.

The Homeowner's Energy Handbook

Your Guide to Getting Off the Grid

Storey Publishing Discusses renewable energy resources and provides instructions for creating energy-saving and energy-producing equipment.

LAXTON'S BUILDING PRICE

Elsevier Now in its 179th edition, Laxton's has become a firm favourite in the UK Building Industry. With more prices and more in-depth build-ups, Laxton's offers more practical and complete information than any other price book available This new edition takes into account major price variations that stem from raw material costs in the last few months. * Higher-fuel costs have impacted on prices across the board, in particular costs of non-ferrous metals in increased * Copper sheet and pipe show price increases of well above 50% in the last year, while zinc, lead and aluminium prices have also risen significantly * There are savings in plaster and drainage goods, prices are down All the prices in Laxton's are based on the new 3

year Construction Industry Joint council wage rate agreement that came into force at the end of June 2006 *Saving you time - comprehensive basic price and approximate estimating sections make putting together outline costings quicker and easier *Saving you effort - all the information you need on each measured item is clearly set out on a single page, with a full break down of costs *Saving you money - all 250,000 prices are individually checked and updated to make sure that your tender costs are precise

How to Build the Perfect Off-Grid Home

Paladin Press If you're looking at this book, you probably already have off-grid aspirations. So how can you solidify those abstract ideas into concrete form? In *How to Build the Perfect Off-Grid Home*, Roxyanne Spanfelner, who built a remote off-grid home four years ago, offers practical advice to navigate the often complex and perplexing process. Before you dismiss this book because you think it is only for those who wish (and can afford) to build a new home from scratch with all the newest technology, please don't be misled. While it does deliver a detailed, ground-up, start-to-finish guide for the new generation of off-gridders, it has something for everyone. If you're not quite ready to cut the power cords, you'll find a vast range of highly energy-efficient options to make retrofitting your existing home easier and more affordable. Inside these pages, you'll find out how to: Determine whether it is better for you to go gridless or modify your energy grid-based system Design a floor plan utilizing the best passive and active energy options Find the right contractors to oversee your project Select the right building materials, appliances, and lighting to maximize energy savings Assess the pros and cons of wind and energy alternative-power systems Create and operate your own "private utility company" for power generation, water collection, and waste disposal Set up a reliable and affordable maintenance schedule Spanfelner explains why building off grid was the right choice for her family, as it has been for about a million others across America. Maybe it is for you too. This book shows you how to declare your independence from the utility companies, reduce your carbon footprint, and reap the financial and psychological rewards of a more self-sufficient lifestyle.

AJfocus

Guide to Building Control For Domestic Buildings

John Wiley & Sons 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.

Integrated Sustainable Design of Buildings

Routledge First Published in 2010. Routledge is an imprint of Taylor & Francis, an informa company.

Solar Water Heating--Revised & Expanded Edition

A Comprehensive Guide to Solar Water and Space Heating Systems

New Society Publishers A complete array of solar water heating solutions.

Organizing for Sustainability

A Guide to Developing New Business Models

Springer Nature This upper-level Open Access textbook aims to educate students and professionals on how to develop business models that have a positive impact on people, society, and the social and ecological environment. It explores a different view of how to organize value creation, from a focus on an almost exclusively monetary value creation to one that creates positive impact through multiple values. The book offers students and entrepreneurs a structured approach based through the Business Model Template (BMT). It consists of three stages and ten building blocks to facilitate the development of a business model. Users, be they students or practitioners, need to choose from one of the three offered business model archetypes, namely the platform, community, or circular business models. Each archetype offers a dedicated logic for value creation. The book can be used to develop a business model from scratch (turning an idea into a working prototype) or to transform an existing business model into one of the three archetypes. Throughout the book extra sources, links to relevant online video clips, assignments and literature are offered to facilitate the development process. This book will be of interest to students studying the development of business models, sustainable management, innovation, and value creation. It will also be of interest executives, and professionals such as consultants or social entrepreneurs seeking further education.--

Plumbing Principles and Practice

Routledge This book provides a complete introduction to plumbing services. It explains the principles and provides practical examples of the planning, design, installation and maintenance of the plumbing technologies applicable to single-storey buildings, skyscrapers and everything in between. The book begins with an introduction to plumbing technology, the trade and its evolution. Chapters then cover: Pipes, fittings and accessories and their installation and testing Pumps and pumping systems Hydraulic principles Hot and cold water supply systems Fixtures and appliances Sanitary and storm drainage systems Special concerns such as seismic issues, safety, security and the state of the art. Written and the figures drawn by a registered professional engineer and experienced teacher, this book is suitable for use on a wide range of courses from building services engineering, civil engineering, construction technology, plumbing services, environmental engineering, water engineering and architectural technology.

Solar Water Heating Systems

Proceedings of the Workshop on Solar Water Heating Systems New Delhi, India 6–10 May, 1985

Springer Science & Business Media H.P. Garg Centre of Energy Studies Indian Institute of Technology Hauz Khas, New Delhi 110 016 India Heating of water using solar energy is not new and by using a little science and technology in it, the solar energy can be utilized more effectively and economically for heating the water both for domestic and industrial applications. Solar Water Heaters are popular for the last three decades in countries like USA, Australia, Israel, Japan, India. This is the only solar energy application which is commercially, technically and economically viable and has been studied for more than 30 years in many countries. Technical advances in solar water heating have been very rapid in the last 30 years. These are becoming popular not only for domestic use but for large establishments like hostels, hotels, hospitals, industries such as Textile, Paper and Food Processing and even in heating of swimming pools in winter. In few instances the cost of solar water heating systems may be higher than those operated by electricity, gas or other fuel but over a period of time this is more than recovered by the savings in the cost of operations and maintenance.

Estimating for Heating and Ventilating

Elsevier Estimating for Heating and Ventilating, Third Edition discusses various concerns regarding heating and ventilating system with an emphasis on cost estimation. The book is comprised of eight chapters that tackle a specific area in heating and ventilating systems. The first chapter tackles the principles and elements of estimating, while the second chapter deals with specifications and drawings. Chapter 3 tackles the materials involved, and Chapter 4 talks about estimating the labor requirements. Chapter 5 discusses the preparation of tender, and Chapter 6 presents notes on costing. Chapter 7 covers builder's work, and Chapter 8 deals with the estimation of annual running cost. The book will be of great help to engineers, architects, and building administrators who are mostly involved in designing, constructing, and maintaining building systems.

Frontline Leadership - The Hurdle

Utility Business Media It's hard to jump over a hurdle from a standing position. And leadership has its share of hurdles. Like a track athlete needs to focus on their run up, which includes preparation and training, to jump over hurdles, leaders must have an effective run up to overcome their hurdles. This book discusses the run up of culture creation and developing relationships while defining what leadership is and outlining characteristics and skills shared by successful leaders. Readers will develop a more complete definition of leadership through insights, principles, and scenarios shared throughout the book and walk away with an understanding of how to practice leadership and maximize their effectiveness and potential. Topics covered include sources of leadership and how it is measured; creating alignment and culture; leadership styles; emotional intelligence and decision making; effective communication; coaching and feedback; developing relationships; leading change; and teaching and training. Readers will be exposed to powerful lessons on balancing influence and authority and taking full ownership and responsibility for their team. They will learn how to favor positives and proaction over negatives and reaction and focus more on asking than telling. They will also learn to avoid the pitfalls of basing consequences on results alone and decisions made based on comfort and convenience. Doctors practice medicine and leaders must practice leadership. This entertaining, insightful, and inspiration book identifies leadership as a skill and explains how it can be learned, practiced, and improved. Read it and learn what it takes to create an effective leadership run up, overcome hurdles, and take leadership to the next level.

Climate for Collections

Standards and Uncertainties

This title investigate what is known and what is not known about suitable environmental conditions for cultural heritage collections.

Aesthetics of Sustainable Architecture

Nai Uitgevers Pub The purpose of this book is to reveal, explore and further the debate on the aesthetic potentials of sustainable architecture and its practice. This book opens a new area of scholarship and discourse in the design and production of sustainable architecture, one that is based in aesthetics. The chapters in this book have been compiled from architects and scholars working in diverse research and practice areas in North America, Europe, the Middle East and Asia. While they approach the subject matter from different angles, the chapters of the book help clarify the key principles behind environmental concerns and sustainability in

architecture. At its very core, *Aesthetics of Sustainable Architecture* underlines the connection that exists between our approach to the environment and sustainability on one hand, and our approach to certain aesthetic propositions and practices on the other. With contributions by Nezar AlSayyad, Gabriel Arboleda, Vinayak Bharne, Keith Bothwell, John Brennan, David Briggs, Luca Finocciaro, Kenneth Frampton, Marie Antoinette Glaser, Anne Grete Hestnes, Glen Hill, Stefanie Holzheu, Louisa Hutton, Daniel Jauslin, Ralph L. Knowles, Kengo Kuma, Sang Lee, Giancarlo Mangone, Elisabetta Pero, Matthias Sauerbruch, Patrick Teuffel, Harad N. Røstvik, Matthew Skjonsberg and Minna Sunikka-Blank.

Essential Hempcrete Construction

The Complete Step-by-Step Guide

New Society Publishers Hempcrete is a versatile, energy-efficient natural insulation material, useful for walls, roofs and floors. Made from the inner stem of the hemp plant mixed with a lime-based binder, it is a very strong, lightweight and breathable alternative to manufactured insulations. *Essential Hempcrete Construction* is a fully illustrated practical guide to this affordable, renewable method, from procurement to finishing. Going well beyond the scope of many natural building books, this indispensable manual includes a complete introduction to hempcrete, packed with all the information you need to determine whether it's the right choice for your project. It covers: Material specifications, testing and building code references and climate data Detail drawings for design reference Tool lists, and complete step-by-step instructions for mixing and placing hempcrete Finishing and maintenance techniques Budgeting and labor estimates Additional resources. *Essential Hempcrete Construction* is part of *New Society's Sustainable Building Essentials Series*. Series editors Chris Magwood and Jen Feigin have scoured the world of sustainable building to bring you the techniques and systems that deliver measureable benefits in terms of greater energy efficiency and reduced environmental impact. Written by the world's leading sustainable builders, designers and engineers, these succinct, user-friendly handbooks are indispensable tools for any project where accurate and reliable information are key to success. Get the Essentials!

Hope Prevails

Insights from a Doctor's Personal Journey through Depression

Revell Neuropsychologist Offers Hope to Those Struggling with Depression As a board-certified neuropsychologist, Dr. Michelle Bengtson sees the devastation of depression. Early on, she practiced the most effective treatments and prescribed them for her clients. But when she experienced depression herself, she found that

the treatments she had recommended were lacking. Her experience showed her the missing component in treating depression. In Hope Prevails, Dr. Bengtson writes with deep compassion, blending her training and faith, to offer readers a hope grounded in God's love and grace. She helps readers understand what depression is, how it affects them spiritually, and what, by God's grace, it cannot do. The result is an approach that offers the hope of release, not just the management of symptoms. For those who struggle with depression and those who want to help them, Hope Prevails offers hope for the future.

Guidance on Use of Rainwater Tanks

Camera Trapping for Wildlife Research

Pelagic Publishing Ltd Camera trapping is a powerful and now widely used tool in scientific research on wildlife ecology and management. It provides a unique opportunity for collecting knowledge, investigating the presence of animals, or recording and studying behaviour. Its visual nature makes it easy to successfully convey findings to a wide audience. This book provides a much-needed guide to the sound use of camera trapping for the most common ecological applications to wildlife research. Each phase involved in the use of camera trapping is covered: - Selecting the right camera type - Set-up and field deployment of your camera trap - Defining the sampling design: presence/absence, species inventory, abundance; occupancy at species level; capture-mark-recapture for density estimation; behavioural studies; community-level analysis - Data storage, management and analysis for your research topic, with illustrative examples for using R and Excel - Using camera trapping for monitoring, conservation and public engagement. Each chapter in this edited volume is essential reading for students, scientists, ecologists, educators and professionals involved in wildlife research or management.

The Green Workplace

Sustainable Strategies that Benefit Employees, the Environment, and the Bottom Line

St. Martin's Press As 21st-century companies realize they'll need to be green to compete, sustainable ideas are spreading like wildfire throughout all fields of modern

business. In The Green Workplace, Leigh Stringer, an expert on sustainable workplace design and strategy, shows companies on the cusp of radically transforming their practices how to bring together diverse teams and establish new organizational governance for creative problem-solving in greening their workplace. Her hands-on green strategies are based on concrete and cost-effective changes such as: - working from home - ways to cut commuting costs - video conferencing to cut down on travel - increasing access to natural light to save energy - and more. Stringer explains how managers can implement these changes smoothly and efficiently. In solving key problems, she shows companies how a green business reduces costs, increases productivity, improves recruiting and retention, and increases shareholder value, in addition to benefiting the environment.

A Simple Roundhouse Manual

CreateSpace The author designed, built and, with his partner Faith, lives in a simple, turf-covered, wood and cobwood, low impact roundhouse. He wrote a book Building a Low Impact Roundhouse (Permanent Publications) to describe the process. In the fifteen years that have elapsed since the roundhouse becoming known about, Tony has been asked several times to run and supervise courses in which participants build a simple roundhouse over two to four weeks. In this book he uses the experience of those courses and other builds to produce a thorough 'How To' manual covering Site, Design and Planning, Drainage and Stem Wall, the Henge, the Reciprocal Frame roof, Walls, and Roof covering. From the words, diagrams and over one hundred colour photographs here, you will be able to design and build your own simple roundhouse. Preferably in a group, because that is more fun. The tips in this book will enable you to build a simple roundhouse very cheaply and quickly. This manual should be a part of your toolkit.

Guide to the Condensing Boiler Installation Assessment Procedure for Dwellings

From 1 April 2005, the revised Approved Document L1 of the Building Regulations sets down revised guidance for the efficiency of hot water central heating gas and oil boilers installed in new and existing dwellings. This guide is to help heating installers carry out a condensing boiler installation assessment using the procedure set out in Appendix G of the revised Approved Document L1.

The Healthy Workplace

How to Improve the Well-Being of Your Employees---and Boost Your Company's Bottom Line

AMACOM Studies show that unhealthy work habits, like staring at computer screens and rushing through fast-food lunches, are taking their toll in the form of increased absenteeism, lost productivity, and higher insurance costs. But should companies intervene with these individual problems? And if so, how? The Healthy Workplace says yes! Companies that learn how to incorporate healthy habits and practices into the workday for their employees will see such an impressive ROI that they'll kick themselves for not starting these practices sooner. Packed with real-life examples and the latest research, this all-important resource reveals how to:

- Create a healthier, more energizing environment
- Reduce stress to enhance concentration
- Inspire movement at work
- Support better sleep
- Heighten productivity without adding hours to the workday
- And more

Filled with tips for immediate improvement and guidelines for building a long-term plan, The Healthy Workplace proves that a company cannot afford to miss out on the ROI of investing in their employees' well-being.

The Passive Solar Design and Construction Handbook

John Wiley & Sons Passive solar design refers to design strategies that minimize or eliminate the need to heat or cool a building mechanically. This sourcebook of details, drawings and case studies of passive solar buildings throughout the U.S. provides is a complete guide to passive solar design and construction.

Solar Air Conditioning and Refrigeration

Newnes Solar cooling is most effective where it is most needed - in the tropics. Most developing countries lie in the hotter climatic regions, where cooling facilities are essential to promote the well-being, productivity and comfort of the population. Paradoxically, solar air-conditioning can contribute significantly to the alleviation of the problem. This book includes fully detailed treatment of the theory and applications of the techniques involved: vapour absorption systems, solar absorption systems, solar absorption cooling, radiative cooling and desiccant cooling. Particular applications stressed include the use of passive cooling in buildings and the provision of efficient refrigeration facilities, the latter being essential for the storage of vaccines in health-care programmes for the eradication of infectious diseases

throughout the developing world.

Underfloor Heating Design and Installation Guide

Wind Energy: Renewable Energy and the Environment

CRC Press The utilization of wind power and other renewable energy sources has been growing at a phenomenal rate. Wind Energy, Third Edition explores the wind industry from its inception in the 1970s to today; presents the design, aerodynamics, operation, control, applications, as well as different types of wind turbines. An overview of energy examines world consumption and use of fossil fuels, and includes a section on global climate change. It covers the characteristics of wind, such as shear, power potential, and turbulence, and discusses the measurement and siting of individual wind turbines and wind farms. It also discusses the political and economic factors regarding the adoption of wind as an energy source. Features Includes updates throughout, and adds new material on wind forecasting, offshore wind, decommissioning and repowering wind farms, and more Illustrates the need for a shift to renewable energy through discussions on energy use and the order of magnitude estimates for the lifetime of fossil fuels Discusses the interconnection of wind turbines to utility grids, regulations on installation and operation, and the related environmental concerns Presents important economic considerations for the development of wind farms Provides an abundance of examples that highlight the real-world advantages of wind energy over fossil fuels

Valves, Piping, and Pipelines Handbook

Elsevier Over recent years, a number of significant developments in the application of valves have taken place: the increasing use of actuator devices, the introduction of more valve designs capable of reliable operation in difficult fluid handling situations; low noise technology and most importantly, the increasing attention being paid to product safety and reliability. Digital technology is making an impact on this market with manufacturers developing intelligent (smart) control valves incorporating control functions and interfaces. New metallic materials and coatings available make it possible to improve application ranges and reliability. New and improved polymers, plastic composite materials and ceramics are all playing their part. Fibre-reinforced plastic pipe systems, glass-reinforced epoxy pipe systems and the traditional low-cost polyester pipe systems have all undergone sophisticated design and manufacturing technology changes. The potential for growth and

expansion of the industry is huge. The 3rd Edition of the Valves, Piping and Pipelines Handbook salutes these developments and provides the engineer with a timely first source of reference for the selection and application of Valves and Pipes.

Domestic Building Services Compliance Guide (for Part L 2013 Edition)

Riba Publications Limited This guide is referred to in the 2013 edition of Approved Document L1A and the 2010 edition of Approved Document L1B (as amended in 2013) for dwellings as a source of guidance on complying with Building Regulations requirements for space heating and hot water systems, mechanical ventilation, comfort cooling, fixed internal and external lighting and renewable energy systems.

The Hempcrete Book Designing and Building with Hemp- Lime

Uit Cambridge Limited The Hempcrete Book is a detailed practical manual for architects, surveyors, professional builders and self-builders. It explains how to source and mix hempcrete and how to use it in new builds and restoration. In colour throughout, fully illustrated with beautiful photographs, this book provides a full explanation of construction techniques, highlighting potential pitfalls and how to avoid them. It includes a comprehensive resources section and examples of completed builds, with design notes. Hempcrete is a building material with excellent properties. It's made from lime and hemp shivs (a waste product from hemp fibre growing) and can be used for walls, floors, and for 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 thermal mass. It's light-weight, reducing construction costs, and it's environmentally friendly: it locks up CO2 for the life of the building, and the hemp doesn't require agrochemicals or insecticides in its cultivation. The Hempcrete Book is a valuable tool for any eco-builder.

LEED Reference Guide for Building

Design and Construction LEED V4 Edition (2016)