
Structural Design Guide Sips Eco Panels

Lessons from the Hudson River Region
A Manual for Self-Reliance, Sustainability, and Surviving the Long Emergency, 2nd Edition
100 Projects UK CLT
A Simple Guide to Passivhaus Detailing and Design
An Illustrated Guide for Design and Construction
The Natural Building Companion
Building and Customizing an Affordable, Energy-Efficient Home
Handbook of Green Building Design and Construction
A Critical Guide.
Practical, Cost-Effective and Eco-Responsible Homebuilding
Prefabulous + Sustainable
A Guide to Sustainable Design Terms
Essential Prefab Straw Bale Construction
Engineering Applications in Sustainable Design and Development
Learning to Conserve Resources and Manage an Eco-conscious Life
Building Envelopes, Renewable Energies and Integrated Practice
Design and Construction of High-Performance Homes
When Technology Fails
The Homebuilding & Renovating Guide
Structures and buildings
Building Construction Handbook
The Modular Home
LEED, BREEAM, and Green Globes
Sustainable Design
Builder's Guide to Structural Insulated Panels (SIPs) for All Climates
The Practical Guide for Eco-friendly Remodeling and Decorating
Ed Begley, Jr.'s Guide to Sustainable Living
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Technologies and Eco-innovation towards Sustainability I
Optimizing and Finding Alternatives to Wood
Buyer's Guide and Web Site Directory
Green Interior Design
Structural Timber Design to Eurocode 5

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Lessons from the Hudson River Region
Bloomsbury Publishing USA
There's never been a better time to "be prepared." Matthew Stein's comprehensive primer on sustainable living skills—from food and water to shelter and energy to first-aid and crisis-management skills—prepares you to embark on the path toward sustainability. But unlike any other book, Stein not only shows you how to live "green" in seemingly stable times, but to live in the face of potential disasters, lasting days or years, coming in the form of social upheaval, economic meltdown, or environmental catastrophe. When *Technology Fails* covers the gamut. You'll learn how to start a fire and keep warm if you've been left temporarily homeless, as well as the basics of installing a renewable energy system for your home or business. You'll learn how to find and sterilize water in the face of utility failure, as well as practical information for dealing with water-quality issues even when the public tap water is still flowing. You'll learn alternative techniques for healing equally suited to an era of profit-driven malpractice as to situations of social calamity. Each chapter (a survey of the risks to the status quo; supplies and preparation for short- and long-term emergencies; emergency measures for survival; water; food; shelter; clothing; first aid, low-tech medicine, and healing; energy, heat, and power; metalworking; utensils and storage; low-tech chemistry; and engineering, machines, and materials) offers the same approach, describing skills for self-reliance in good

times and bad. Fully revised and expanded—the first edition was written pre-9/11 and pre-Katrina, when few Americans took the risk of social disruption seriously—*When Technology Fails* ends on a positive, proactive note with a new chapter on "Making the Shift to Sustainability," which offers practical suggestions for changing our world on personal, community and global levels. *A Manual for Self-Reliance, Sustainability, and Surviving the Long Emergency, 2nd Edition* Filipacchi Publishing

An organized, structured approach to the 2018 INTERNATIONAL PLUMBING CODE Soft Cover, these TURBO TABS will help you target the specific information you need, when you need it. Packaged as pre-printed, full-page inserts that categorize the IPC into its most frequently referenced sections, the tabs are both handy and easy to use. They were created by leading industry experts who set out to develop a tool that would prove valuable to users in or entering the field.

100 Projects UK CLT Routledge
ENGINEERING APPLICATIONS IN SUSTAINABLE DESIGN AND DEVELOPMENT is an invaluable resource for today's engineering student. Focusing on pressing contemporary issues, the text puts product design in the context of models of sustainability. Relevant case studies from across the globe will be of interest to engineers in training, and active learning exercises in each chapter help students learn to apply theory to real world situations. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. [A Simple Guide to Passivhaus Detailing and Design](#) Chelsea Green Publishing

The essential guide to prefab straw bale panels - an innovative spin on a widely used natural building method

An Illustrated Guide for Design and Construction Routledge

Describes methods to conserve energy in the home and create a greener living space, from simple steps including installing ceiling fans to overhauling and replacing outdated heating systems.

The Natural Building Companion New Society Publishers

"The benefits of cross-laminated timber (CLT) are clear: building in timber is quick, clean, and easy. It can be achieved with a measured accuracy and lack of noise, waste, or need for material storage space. This book is a study of the 100 of the most significant buildings constructed from CLT in the United Kingdom over the past 15 years. Authors Andrew Waugh and Anthony Thistleton of Waugh Thistleton Architects have contacted a wide range of individuals and businesses to interview them about their experiences building in CLT to help inform this book." -- Thinkwood.com.

Building and Customizing an Affordable, Energy-Efficient Home Gibbs Smith

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.

Handbook of Green Building Design and Construction Springer

A guide to home building, renovation, and decorating for environmentally conscientious readers or home owners looking to promote energy efficiency explains how to reduce one's personal carbon footprint, lower costs, and promote an eco-friendly lifestyle while creating one's dream home.

A Critical Guide. Cengage Learning

Since 1930 more than 100,000 new chemical compounds have been developed and insufficient information exists on the health assessment of 95 percent of these chemicals in which a relevant percentage are used in construction products. For instance Portland cement concrete, the most used material on the Planet (10.000 million tons/year that in the next 40 years will increase around 100 %) currently used in around 15% of total concrete production contains chemicals used to modify their properties, either in the fresh or hardened state. Biopolymers are materials that are developed from natural resources. They reduce dependence on fossil fuels and reduce carbon dioxide emissions. There is a worldwide demand to replace petroleum-based materials with renewable resources. Currently bio-admixtures

represent just a small fraction of the chemical admixtures market (around 20%) but with environmental awareness for constituents in construction materials generally growing (the Construction Products Regulation is being enforced in Europe since 2013), the trend towards bio-admixtures is expected to continue. This book provides an updated state-of-the-art review on biopolymers and their influence and use as admixtures in the development of eco-efficient construction materials. Provides essential knowledge for researchers and producers working on the development of biopolymer-modified construction materials Discusses the various types of biopolymers currently available, their different production techniques, their use as bio-admixtures in concretes and mortars and applications in other areas of civil engineering such as soil stability, wood preservation, adhesives and coatings All contributions are made from leading researchers, who have intensive involvement in the design and use of biopolymers in construction materials Practical, Cost-Effective and Eco-Responsible Homebuilding GeneralStore PublishingHouse

Modern Cabin turns a true icon on its head-radically redefining what a cabin can be. For those who've always wanted a woodsy retreat but want to create a softer environment footprint, Michelle Kodis has gathered twenty-two examples of mountain retreats that push the envelope of cabin architecture and lead the way for the cabin of the future. Architects are creating structures that showcase inspiring and innovative construction methods and materials-including prefab components, environmentally responsible and energy-efficient building techniques, and even "smart" house technology.

Prefabulous + Sustainable Centaur Media

Structural Timber Design to Eurocode 5 provides practising engineers and specialist contractors with comprehensive, detailed information and in-depth guidance on the design of timber structures based on the common rules and rules for buildings in Eurocode 5 - Part 1-1. It will also be of interest to undergraduate and postgraduate students of civil and structural engineering. It provides a step-by-step approach to the design of all of the commonly used timber elements and connections using solid timber, glued laminated timber or wood based structural products, and incorporates the requirements of the UK National Annex. It covers: strength and stiffness properties of timber and its reconstituted and engineered products key requirements of Eurocode 0, Eurocode 1 and Eurocode 5 - Part 1-1 design of beams and columns of solid timber, glued laminated, composite and thin-webbed sections lateral stability requirements of timber structures design of mechanical connections subjected to lateral and/or axial forces design of moment resisting rigid and semi-rigid connections racking design of multi-storey platform framed walls Featuring numerous detailed worked examples, the second edition has been thoroughly updated and includes information on the consequences of amendments and revisions to EC5 published since the first edition, and the significant additional requirements of BSI non contradictory, complimentary information document (PD 6693-1-1) relating to EC5. The new edition also includes a new section on axial stress conditions in composite sections, covering combined axial and bending stress conditions and reference

to the major revisions to the design procedure for glued laminated timber.

A Guide to Sustainable Design Terms
Routledge

ENGINEERING APPLICATIONS IN SUSTAINABLE DESIGN AND DEVELOPMENT is an invaluable resource for today's engineering student.

Focusing on pressing contemporary issues, the text puts product design in the context of models of sustainability. Relevant case studies from across the globe will be of interest to engineers in training, and active learning exercises in each chapter help students learn to apply theory to real world situations. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Essential Prefab Straw Bale Construction Routledge

Ideal for students on all construction courses Topics presented concisely in plain language and with clear drawings Updated to include revisions to Building and Construction regulations The Building Construction Handbook is THE authoritative reference for all construction students and professionals. Its detailed drawings clearly illustrate the construction of building elements, and have been an invaluable guide for builders since 1988. The principles and processes of construction are explained with the concepts of design included where appropriate. Extensive coverage of building construction practice, techniques, and regulations representing both traditional procedures and modern developments are included to provide the most comprehensive and easy to understand guide to building construction. This new edition has been updated to reflect recent changes to the building regulations, as well as new

material on the latest technologies used in domestic construction. Building Construction Handbook is the essential, easy-to-use resource for undergraduate and vocational students on a wide range of courses including NVQ and BTEC National, through to Higher National Certificate and Diploma, to Foundation and three-year Degree level. It is also a useful practical reference for building designers, contractors and others engaged in the construction industry.

Engineering Applications in Sustainable Design and Development FEMA

Modular homes are the perfect solution if you want to build a high-quality, customized home without undue expense or hassle. In this informative guide, Andrew Gianino helps you make the best choices throughout the modular building process, with suggestions for everything from choosing the right dealer and contractor to setting the specs, price, and schedule. Whether you're looking for a cozy Victorian or want to add a personal touch to a wide ranch, there's a modular home that will fit your tastes, lifestyle, and budget.

Learning to Conserve Resources and Manage an Eco-conscious Life
Cengage Learning

The bestselling step-by-step framing guide—updated and expanded to meet 2018 codes and standards Complete Book of Framing, Second Edition—Updated and Expanded is a comprehensive guide to rough carpentry and framing, written by an expert with over forty years of framing experience. This book guides the reader through step-by-step framing instructions for floors, walls, roofs, door and window openings, and stairs. Hundreds of full-color illustrations and photos enable novice and professional framers to understand and master framing

techniques. This Updated and Expanded Second Edition includes the framing techniques of the 2018 International Building Code (IBC), International Residential Code (IRC), and updated OSHA rules. It also includes new coverage of today's electric tools, wind and earthquake framing, medical and physiological factors of framing, and a revised safety chapter. Builders will find information on nailing patterns, overall layout, engineered wood patterns, and green framing. In addition, the book offers readers tools and techniques for preparing for a job and managing a team. This Second Edition—Updated and Expanded: Includes hundreds of full-color illustrations depicting step-by-step framing techniques Offers guidance on today's electric tools and structural enhancements for natural disasters Features a revised chapter on safety to reflect the medical and physiological factors of framing Meets the framing techniques of the 2018 International Building Code (IBC), International Residential Code (IRC), and Occupational Safety and Health Administration (OSHA) standards Complete Book of Framing: An Illustrated Guide for Residential Construction, Second Edition—Updated and Expanded is an excellent resource for framers, carpenters, and contractors of all experience levels. Framer-friendly tips throughout the book show how to complete framing tasks efficiently and effectively.

Building Envelopes, Renewable Energies and Integrated Practice Simon and Schuster

Focus on critical contemporary issues as you examine engineering design and technologies within the context of models for managing systems' sustainability with ENVIRONMENTAL ENGINEERING AND SUSTAINABLE

DESIGN, 2nd Edition. This best-selling invaluable resource, specifically designed for those studying engineering or applied environmental science, is updated with the latest developments and current, relevant case studies from across the globe. You learn how to incorporate sustainable practices into engineering design process, technological systems and the built environment. Expanded active learning exercises for each chapter guide you in applying theory to real situations. New chapters address developing issues and help bring sustainability science, environmental impact analysis and models of sustainability in engineering practice to the forefront. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Design and Construction of High-Performance Homes Chelsea Green Publishing

A guide to how prefabrication can assist those looking to build an energy-efficient home that won't break the bank. Prefabulous and Sustainable dispels the negative myths associated with prefab homes and shows the reader how beautiful and remarkably green these homes can be. In this unique, hands-on guide for homebuilders, author Sheri Koones showcases twenty-five examples of how factory-built homes can be greener, more efficient, sturdier, and even more cost-effective than site-built homes. This practical manual gives you all the tools needed to customize a sustainable, prefab home at an affordable price. Koones outlines the materials, strategies, and systems used to create a sustainable living environment. Stunning photography and user-friendly floor plans and resource

guides prove that green living is not as complicated as one might think—and is attainable for everyone. Praise for Prefabulous + Sustainable “Authoritative and beautiful. Once again, Koones builds her case for pre-fab thoroughly, and presents it in a compelling, well-organized package.” —Allen Norwood, NAREE Book Competition Head Judge “[Prefabulous + Sustainable] will soon become required reading for anyone interested in quality housing for the twenty-first century.” —Bob Berkebile, Fellow of the American Institute of Architects

When Technology Fails Wood Reduction Trilogy

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

The Homebuilding & Renovating Guide Cengage Learning

This book is a guide to a sustainable design process that moves from theory, to site and energy use, to building systems, and finally to evaluation and case studies, so you can integrate design and technology for effective sustainable building. Kuppaswamy

lyengar shows you how to get it right the first time, use free energy systems, and utilize technologies that minimize fossil fuel use. Each chapter has a sustainable design overview, technical details and strategies marked by clear sections, a summary, and further resources. Heavily illustrated with charts, tables, drawings, photographs, and case studies, the book shows technologies and concepts integrated into cohesive project types, from small and large office spaces to single and multiuse residences, hospitals, schools, restaurants, and warehouses to demonstrate implementing your designs to meet clients' needs now and for the future. Includes an overview of alternate assessment and evaluation systems such as BREEAM, CASBEE, GBTool, Green Globes alongside LEED, ECOTECT, energy 10, HEED and eQuest simulation programs. The guide reveals the importance of the building envelope—walls, superstructure, insulation, windows, floors, roofs, and building materials—on the environmental impact of a building, and has a section on site systems examining site selection, landscape design, thermal impact, and building placement. Structures and buildings Penguin Architecture 2030; BUG; Biophilic Design; BIPV; Circular Economy; LEED; Passive Design; Solar Chimney; Systems Thinking; WELL; Xeriscaping. What does it all mean? The complex and evolving language used in the sustainable design community can be very challenging, particularly to those new to environmentally friendly and resource-efficient design strategies that are needed today. Definitions of over two hundred terms with further sources. Clearly cross-referenced with Sustainaspeak, Theoryspeak, and

Archispeak terms. Illustrated throughout with sustainable award-winning buildings by e.g. Behnisch, Brooks + Scarpa, EHDD, KieranTimberlake, Lake|Flato, Leddy Mahtum Stacy, SmithGroup, Perkins+Will, ZGF, VMDO, and McDonough + Partners. Sustainaspeak:

A Guide to Sustainable Design Terms provides a current guide to the sustainable design strategies, terms, and practices needed for the next generation of designers, architects, students, and community leaders to design a carbon-neutral world for future generations.

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