

# The Passivhaus Handbook A Practical Guide To Constructing And Retrofitting Buildings For Ultra Low Energy Performance Adam Dadeby

Food and Climate Change without the hot air The Hempcrete Book Community Energy Solar Energy The Greened House Effect Self-build The Passivhaus Handbook Vibrant Architecture S L Bridle William Stanwix Gordon Cowtan Arno Smets Jeff Wilson Julian Owen Janet Cotterell Rachel Armstrong Food and Climate Change without the hot air The Hempcrete Book Community Energy Solar Energy The Greened House Effect Self-build The Passivhaus Handbook Vibrant Architecture *S L Bridle William Stanwix Gordon Cowtan Arno Smets Jeff Wilson Julian Owen Janet Cotterell Rachel Armstrong*

did you know that more than a quarter of the greenhouse gas emissions that cause climate change come from food in this ground breaking and accessible book professor sarah bridle calculates the greenhouse gas emissions of a selection of our most popular meals and beverages from a cup of tea and a bowl of cereal to spaghetti bolognese and chicken tikka masala breaking down different ingredients and cooking methods to reveal their environmental impact she finds delicious and sustainable meal alternatives with this knowledge we can make a conscious effort to lower our emissions such as eating more locally grown produce and introducing meat free days enabling us to help our planet while also eating healthier food as well as explaining how our food choices impact the environment and giving practical advice on how to lower emissions food and climate change without the hot air considers how climate change will affect the food of the future a rigorously researched discussion of how food and climate change are intimately connected bridle also dives into the important topic of food waste and gives valuable tips to avoid leftovers illustrated in full colour throughout this is an essential resource for anyone with eco anxiety looking for quick and easy ideas to become more sustainable

a comprehensive practical manual for professionals and self builders this innovative book explains the many benefits of building with hempcrete hempcrete is a building material with excellent environmentally friendly properties it's made from lime and hemp shivs a waste product from hemp fibre growing and can be used for walls floor and roof insulation hempcrete is breathable absorbing and emitting moisture this helps regulate internal humidity avoiding trapped moisture and mould

growth and creating healthier buildings it provides excellent acoustic and thermal insulation and it is lightweight which reduces construction costs whether you are working on a new build or are planning a renovation the hempcrete book tells you everything you need to know to get started with hempcrete it describes how to source and mix it and provides a detailed account of construction techniques highlighting potential pitfalls and how to avoid them with fully illustrated design notes and examples of completed builds this book is a powerful tool for any eco builder

packed with useful information this is an essential resource for anyone thinking of setting up and running a community energy project community energy is often seen as simply groups of people setting up wind turbines or hydroelectric schemes yet there's actually a lot more going on in the range of activities that community energy groups are involved in and the impact these have community energy provides an overview of the role of community renewable energy projects in the uk examining the history of community renewable projects and the different types of project that have been successful and unsuccessful an engaging and informative guide it covers an introduction to renewable energy projects information on why they matter and ways to get involved and different scales and types of project it also includes case studies and financial and legal tips on how to generate income from the project as well as guidance on policy and planning permission community energy is a handy resource for anyone thinking of embarking on a community renewables project as well being a useful source of information for people in the renewables industry and policy makers at all levels of government

this book provides a broad overview on the different aspects of solar energy with a focus on photovoltaics which is the technology that allows light energy to be converted into electric energy renewable energy sources have become increasingly popular in recent years and solar is one of the most adaptable and attractive types from solar farms to support the national grid to roof panels tiles used for solar thermal heating systems and small solar garden lights written by delft university researchers solar energy uniquely covers both the physics of photovoltaic pv cells and the design of pv systems for real life applications from a concise history of solar cells components and location issues of current systems the book is designed to make this complicated subject accessible to all and is packed with fascinating graphs and charts as well as useful exercises to cement the topics covered in each chapter solar energy outlines the fundamental principles of semiconductor solar cells as well as pv technology crystalline silicon solar cells thin film cells pv modules and third generation concepts there is also background on pv systems from simple stand alone to complex systems connected to the grid this is an invaluable reference for physics students researchers industrial engineers and designers working in solar energy generation as well those with a general interest in renewable energy

with greater public awareness of the need for energy independence the issue of how we can make our existing homes more resource efficient is becoming ever more

critical residential buildings make up a large fraction of our energy needs largely due to heating and air conditioning so it's no longer enough to simply do the small stuff like switching to compact fluorescent bulbs or turning down the thermostat at night in the greened house effect author jeff wilson brings his twenty five years of construction experience and knowledge of home building to bear on making our current houses cleaner greener and healthier think of a deep energy retrofit der as a home makeover one that represents a significant investment but that saves money from the get go by capturing the energy you drop on the ground every month every year through inefficiency poor design or simply living in a typical older home using his own family's der of their 1942 home as a prime example wilson weaves a readable narrative at a practical hammer and nail level he presents the solutions to our building and energy problems making them seem possible for average homeowners and small contractors by offering the right set of information skills and materials more technical information is presented in sidebars and graphs and numerous color photos illustrate the process including testing the energy efficiency of your home and learning where improvements need to be made issues of local building codes and regulations financing and paying for a der major components of the der such as roofs exterior walls basements and home systems wilson's building experience along with his lifelong passion for energy issues all come together to form an inspirational can do approach to making our neighborhood our community our nation and our world a better place one home at a time

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

as we move towards the 2016 zero carbon target in house building passivhaus construction looks like becoming not just popular in the uk but commonplace this is a no

nonsense and engaging introduction on how to do it kevin mccloud the passivhaus handbook is an essential guide for anyone wanting to realise a supremely comfortable healthy and durable home with exceptionally low energy costs passivhaus design focuses on getting the building fabric right to achieve ultra low energy consumption cost effectively the approach is relevant to a wide range of building types and climates its methodology can be combined with elements of other building standards such as the uk s code for sustainable homes csh or with other sustainable building goals such as a commitment to using low impact or natural building materials whether you are building an extension retrofitting your house or starting from scratch and whether you are new to low energy design or already have some experience this book will help you navigate around the potential pitfalls and misconceptions it brings together current thinking and best practice the book includes a clear explanation of the underlying building physics and terminology as well as detailed information on key elements of passivhaus avoiding air leakage designing thermal cold bridges moisture management and ventilation strategy there is also lots of practical advice on setting up a project including developing a motivated project team and a discussion of economic considerations and the policy context in the uk as pressure on global resources increases and energy prices continue to rise the passivhaus approach proven over 20 years meets the challenge of ultra low energy building for the future

this book sets out the conditions under which the need for a new approach to the production of architecture in the twenty first century is established where our homes and cities are facing increasing pressures from environmental challenges that are compromising our lives and well being vibrant architecture embodies a new kind of architectural design practice that explores how lively materials or vibrant matter may be incorporated into our buildings to confer on them some of the properties of living things such as movement growth sensitivity and self repair the theoretical and practical implications of how this may occur are explored through the application of a new group of materials characteristically these substances possess some of the properties of living systems but may not have the full status of being truly alive they include forms of chemical artificial life such as dynamic droplets or synthetically produced soils as complex systems they are able to communicate directly with the natural world using a shared language of chemistry and so negotiate their continued survival in a restless world vibrant architecture may create new opportunities for architectural design practice that venture beyond top down form finding programs by enabling architects to co design in partnership with human and nonhuman collectives which result from the production of post natural landscapes ultimately vibrant architecture may operate as an ecological platform for human development that augments the liveliness of our planet rather than diminishes it

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