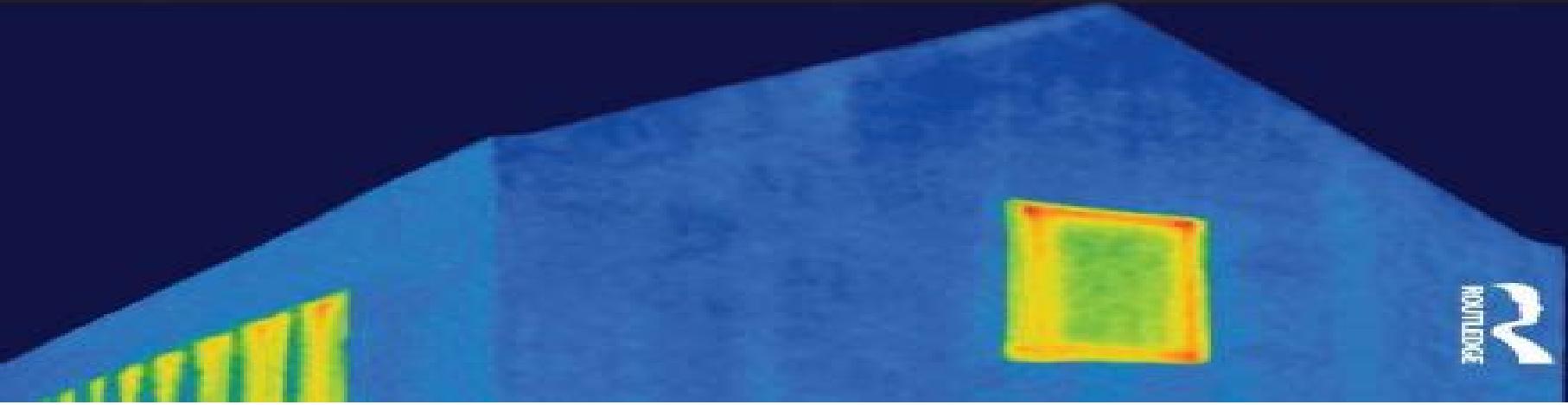


THE PASSIVHAUS DESIGNER'S MANUAL

A technical guide to low and
zero energy buildings

EDITED BY
CHRISTINA J. HOPFE AND ROBERT S. McLEOD



Passivhaus Designers Manual Technical Buildings

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

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Christina Hopfe, 2017-11-28 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 **Designing Zero Carbon Buildings Using Dynamic Simulation Methods** Ljubomir Jankovic,2017-06-23 In addition to the application of fundamental principles that lead to a structured method for zero carbon design of buildings this considerably expanded second edition includes new advanced topics on multi objective optimisation reverse modelling reduction of the simulation performance gap predictive control nature inspired emergent simulation leading to sketches that become alive and an alternative economics for achieving the sustainability paradigm The book features student design work from a Master s programme run by the author and their design speculation for a human settlement on Mars Tasks for simple simulation experiments are available for the majority of topics providing the material for classroom exercise and giving the reader an easy introduction into the field Extended new case studies of zero carbon buildings are featured in the book including schemes from Japan China Germany Denmark and the UK and provide the reader with an enhanced design toolbox to stimulate their own design thinking *Designing Zero Carbon Buildings* Ljubomir Jankovic,2024-06-17 In this significantly revised third edition Designing Zero Carbon Buildings combines embodied and operational emissions into a structured approach for achieving zero emissions by a specific year with certainty Simulation and quantitative methods are introduced in parallel with analogue scale models to demonstrate how things work in buildings Where equations are provided this is also explained with common analogue objects pictures and narratives A Zero Equation introduced in this book is not only explained as an equation but also as an analogy with a jam jar and spoons making the book accessible for a range of audiences Tasks for simple experiments exercises discussion questions and summaries of design principles are provided in closing lines of chapters This book introduces new case studies in addition to an updated case study of the Birmingham Zero Carbon House applying embodied and operational emissions to assess their status using the Zero Equation The approach introduced brings about a sense of realism into what true zero emissions mean Written for students educators architects engineers modellers practising designers sustainability consultants and others it is a major positive step towards design thinking that makes achieving zero carbon emissions a reality

Embedding Resilience in the Built Environment

Using the EU Taxonomy Elzbieta Rynska,2025-02-14 Taxonomy is the common name for an EU regulation that supports companies in sustainable environmental and climate action Regulation EU No 2020/852 It is a classification tool designed for investors companies and financial institutions to define the environmental impact of business activities and the requirements that organisations must meet to be considered as sustainable The aim of this book is to examine the EU taxonomy from the built environment perspective and the ways in which it can be used to build resilience in real estate It presents the issues hot points and possible choices from the designers construction consultants and investing bodies points of view those who must set forth initial conditions which should later become the keystones for greener developments It brings together the expertise of a unique team of both researchers and professionals and presents a methodology case studies and solutions which together comprise a novel understanding of the taxonomy s influence on the pre construction phase The book

describes the role of the built environment within sustainable development and how real estate can be used to build resilience with the use of taxonomy describes the characteristics of resilient environmentally friendly cities in the future proposes a roadmap to demonstrate urban policies that promote decarbonisation and enables investors to compare their products operations and strategies in terms of sustainability Overall this book is essential reading for decision makers in the public and private sectors urban developers space and spatial designers architects planners community stakeholders and real estate investors Chapter 1 of this book is freely available as a downloadable Open Access PDF at <http://www.taylorfrancis.com> under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4 0 license

Research Anthology

on Environmental and Societal Well-Being Considerations in Buildings and Architecture Management Association, Information Resources, 2021-05-28 When it comes to architecture there has been a focus on sustainable buildings and human well being in the built environment Buildings should not only be environmentally friendly and sustainable but dually focused on human health wellness and experience This includes considerations into the quality of buildings ranging from ventilation to thermal comfort along with environment considerations such as energy usage and material selection Specific architectural choices and design for buildings can either contribute to or negatively impact both society and the environment leading research in the field of architecture to be focused on environmental and societal well being in accordance with the built environment The Research Anthology on Environmental and Societal Well Being Considerations in Buildings and Architecture focuses on how the built environment is being constructed to purposefully enhance societal well being while also maintaining green standards for environmental sustainability On one side this book focuses on the specific building choices that can be made for the purpose of human well being and the occupants who will utilize the building On the other side this book also focuses on environmental sustainability from the standpoint of green buildings and environmental concerns Together these topics allow this book to have a holistic view of modern architectural choices and design This book is essential for architects IT professionals engineers contractors environmentalists interior designers civil planners regional government officials construction companies policymakers practitioners researchers academicians and students interested in architecture and how it can promote environmental and societal well being

Net Zero Energy Buildings (NZEB)

Shady Attia, 2025-08-26 Net Zero Energy Buildings NZEB Concepts Frameworks and Roadmap for Project Analysis and Implementation Second Edition is a vital resource for researchers and professionals in civil engineering and architecture This updated version includes examples from the New Buildings Institute's Getting to Zero Buildings Database and revised sections shaped by ongoing collaboration with industry experts and researchers This book is a detailed guide to planning designing and implementing high performance buildings providing practical methodologies to meet global decarbonization targets including the EU's 2050 and China's 2060 zero carbon goals It addresses critical challenges related to the energy transition focusing on electrification decarbonization calculations lifecycle assessment and advanced technologies like data

analytics and digital twins to optimize a building's performance. With real world case studies from diverse climates and building types this second edition highlights lessons learned and actionable strategies to overcome implementation barriers and drive meaningful change in the built environment. Offers a solid grounding in key principles of energy efficiency lifecycle assessment and decarbonization specific to high performance buildings. Combines technical expertise with an understanding of economic, sociocultural and environmental factors for integrated sustainable building solutions. Provides essential tools and strategies for informed decision making throughout the building lifecycle from planning and design to construction and operation. Explores the application of technologies such as photovoltaics, heat pumps, batteries and innovative building storage systems including phase change materials to enhance energy performance and support decarbonization.

Spon's Architects' and Builders' Price Book 2017 AECOM, 2016-10-26 UK construction shows its underlying strength. Tender prices have risen strongly since last year's book was compiled, increasing by around 8% and at an annualised rate of close to 10% in the last half year. Spon's Architects and Builders Price Book 2017, compiled by AECOM, still provides the most accurate, detailed and professionally relevant construction price information for the UK. Its unique Tender Index, updated through the year, gives an ongoing reality check and allows you to adjust for changing market conditions. Although it suits a wide range of project sizes, this is the only price book which sets out a detailed cost base for contracts exceeding 4 000 000 in value. Use the access code inside the front cover of the book to get set up with internet access to this 2017 edition until the end of December 2017. We now provide a VitalSource ebook giving a versatile and powerful online data viewing package. Major changes have been made to this 142nd edition. Major revision and simplification has been made to the in situ concrete section and plasterboard linings and partitions sections. These have been heavily revised and developed. New Cost Models are included, a laboratory, a car park and an updated London Office. More plant prices have been separated out in the measured works section. As well as an overhaul of prices, several new items have been added, including Foamglas insulation, Carlite waterproof concrete and an expanded range of stone flooring, along with the standard features you have come to expect from Spon's A B 20 000. Prices for the most frequently specified items, the majority with labour constants and detailed build ups. Hundreds of alternative materials, prices for the more unusual items. Detailed guidance on wage rates, daywork, cost limits and allowances, property insurance and professional fees, plus useful formulae, design criteria and trade association addresses. Updated free of charge, two or three times a year, see inside for registration details. Updates are available online at www.pricebooks.co.uk.

Energy, People, Buildings Judit Kimpian, Sofie Pelsmakers, Hattie Hartman, 2021-03-04. Energy performance feedback is an essential tool in addressing the current climate crisis. However, this is not simply another theoretical text about energy performance in buildings. This book is for anyone who wants to better understand how energy is used in buildings and how to drive down operational energy use, whether you're an architect, student, client, building services engineer, contractor, building operator or other stakeholder. Focusing on evidence from feedback on buildings in use, it

explains what it takes to get them to perform as expected as well as the reasons why they often fail Energy People Buildings draws extensively on the findings of studies UK government funded building performance evaluations and on original research into seven case studies from across the UK and abroad that have achieved exemplary energy use through building performance feedback Providing a clear roadmap to understanding aspects that impact building users comfort and satisfaction it also outlines the factors behind energy use and how to track it across the life of a project to ensure that your building performs as intended Case studies include the Everyman Theatre Liverpool Rocky Mountain Institute Innovation Center Colorado and Carrowbreck Meadow Norwich Featured architects AHMM AHR Architype Hamson Barron Smith Haworth Tompkins Henning Larsen Architects and ZGF Architects **Architecture and Urban Space** Servando Alvarez,1991-09-30 Proceedings of the Ninth International PLEA Conference Seville Spain September 24 27 1991 **Earth Shelter Living** ,1985 *Timber Construction Manual* American Institute of Timber Construction,2005 Publisher Description **Roof Construction Manual** Eberhard Schunck,2003 This book is a vital reference work on the construction of pitched roofs It offers extensive and fundamental information on all common types of roofing and provides practical details for their construction **BOOKJACKET Details for Passive Houses: Renovation** IBO Österreichisches Institut für Baubiologie und -ökologie,2016-12-19 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 [Index to Scientific & Technical Proceedings](#) ,1980 Monthly with annual cumulation Published conference literature useful both as current awareness and retrospective tools that allow searching by authors of individual papers as well as by editors Includes proceedings in all formats i e books reports journal issues etc Complete bibliographical information for each conference proceedings appears in section titled Contents of proceedings with accompanying category permute term subject sponsor author editor meeting location and corporate indexes Contains abbreviations used in organizational and geographical names **Energy Research Abstracts** ,1980 **Government Reports Announcements & Index** ,1995 **ASHRAE Journal** ,1980 **Proceedings of the ... National Passive Solar Conference** ,1979 **Solar Home Design Manual for Cool Climates** Shawna Henderson,Don Roscoe,2010 Taking you through the process of designing a solar home from the ground up this manual is also a basic course in conservation and sustainable house design If you live in a climate with space heating requirements for most of the year then this is an invaluable resource from cover

Decoding **Passivhaus Designers Manual Technical Buildings**: Revealing the Captivating Potential of Verbal Expression

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