

THE PASSIVHAUS DESIGNER'S MANUAL

EDITED BY
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Book 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 *The Passivhaus Designer's Manual*

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 **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 *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 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 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

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 **Spon's Architects' and Builders' Price Book 2018** AECOM, 2017-09-22

Construction prices rose over the last year by 5% according to AECOM s tender price index with construction price inflation continuing to run above the long run average The main drivers are rising input costs Producer price indices have moved up at a clip in recent quarters with sharp increases in prices for materials and fuels consumed by UK manufacturers Demand and supply side factors make the probability of short term price falls very slim SPON S ARCHITECTS AND BUILDERS PRICE BOOK 2018 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 a VitalSource ebook of this 2018 edition This versatile and powerful online data viewing package is available for use until the end of December 2018 Major changes have been made to this 143rd edition New Cost Models for a retail distribution unit a palliative care unit and a cinema As well as an overhaul of prices several new items have been added including An expanded range of beam block flooring Rainwater harvesting with a precast concrete tank A precast concrete flow attenuation system Precast concrete communication boxes along with the standard features you have come to expect from SPON S ARCHITECTS AND BUILDERS PRICE BOOK 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 Updates free of charge two or three times a year see inside for registration details Updates are available online at www.pricebooks.co.uk

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

A Handbook of Sustainable Building Design and Engineering Dejan Mumovic, Mat Santamouris, 2018-10-30 The second edition of this authoritative textbook equips students with the tools they will need to tackle the challenges of sustainable building design and engineering The book looks at how to design engineer and monitor energy efficient buildings how to adapt buildings to climate change and how to make buildings healthy comfortable and secure New material for this edition includes

sections on environmental masterplanning renewable technologies retrofitting passive house design thermal comfort and indoor air quality With chapters and case studies from a range of international interdisciplinary authors the book is essential reading for students and professionals in building engineering environmental design construction and architecture

Routledge Handbook of the History of Sustainability Jeremy L. Caradonna, 2017-10-18 The Routledge Handbook of the History of Sustainability is a far reaching survey of the deep and contemporary history of sustainability This innovative resource will help to define the history of sustainability as an identifiable field It provides a unique resource for advanced undergraduates graduate students and scholars and delivers essential context for understanding the current state and future path of the sustainability movement The history of sustainability is an increasingly important domain within the discipline of history which draws on an interdisciplinary set of fields ranging from energy studies transportation and urbanism to environmental history economics and philosophy Key sections in this handbook cover the historiography of sustainability resilience and collapse in historical societies the deep roots of sustainability seventeenth century to nineteenth century the recent history of sustainability twentieth century to present and core issues and key debates in sustainability This handbook is an invaluable research and teaching tool for those interested in the history and development of sustainability and an essential resource for the many sustainability studies programs that now exist in the world's universities

Sustainaspeak Elizabeth Lewis, 2018-02-01 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

Design and Construction of High-Performance Homes Franca Trubiano, 2013-03-05 Both professionals and students are increasingly committed to achieving high performance metrics in the design construction and operation of residential buildings This book responds to this demand by offering a comprehensive guide which features architectural innovations in building skin technologies which make lighter more transparent buildings high performing energy free architectural design principles and advances in building integrated photovoltaics essential engineering principles controls and approaches to simulation for achieving net zero the advantages of integrated design in residential construction and the challenges and opportunities it engenders detailed case studies of innovative homes which have incorporated low energy design solutions new materials alternative

building assemblies digital fabrication integrated engineering systems and operational controls Divided into four parts the book discusses the requisite AEC Architecture Engineering and Construction knowledge needed when building a high performance home It also communicates this information across four case studies which provide the reader with a thorough overview of all aspects to be considered in the design and construction of sustainable homes With contributions from experts in the field the book provides a well rounded and multi faceted approach This book is essential reading for students and professionals in design architecture engineering civil mechanical and electrical construction and energy management

Encyclopedia of Sustainable Technologies Martin Abraham,2017-07-04 Encyclopedia of Sustainable Technologies Eight Volume Set provides an authoritative assessment of the sustainable technologies that are currently available or in development Sustainable technology includes the scientific understanding development and application of a wide range of technologies and processes and their environmental implications Systems and lifecycle analyses of energy systems environmental management agriculture manufacturing and digital technologies provide a comprehensive method for understanding the full sustainability of processes In addition the development of clean processes through green chemistry and engineering techniques are also described The book is the first multi volume reference work to employ both Life Cycle Analysis LCA and Triple Bottom Line TBL approaches to assessing the wide range of technologies available and their impact upon the world Both approaches are long established and widely recognized playing a key role in the organizing principles of this valuable work Provides readers with a one stop guide to the most current research in the field Presents a grounding of the fundamentals of the field of sustainable technologies Written by international leaders in the field offering comprehensive coverage of the field and a consistent high quality scientific standard Includes the Life Cycle Analysis and Triple Bottom Line approaches to help users understand and assess sustainable technologies **Earth Shelter Living** ,1985 **Building with Straw Bales** Barbara Jones,2015-05-29 An updated fully revised full colour edition of the definitive manual on building with straw bales described by Grand Designs as an essential guide Straw bale buildings are cost effective easy to build and highly energy efficient enabling you to design and build beautiful environmentally friendly buildings Written with non experts in mind Barbara Jones uses her years of experience in natural building methods to guide self builders and architects building with straw as a sustainable material for a diverse range of comfortable and environmentally friendly buildings Building with Straw Bales takes you through everything you need to know in an easy accessible way This includes design principles the different types of foundations how to raise and stabilise walls and protect them from the weather including a detailed analysis of how straw performs with humidity and how straw bale buildings can easily meet building regulation requirements as well as detailed information on lime and clay plaster finishes Now in full colour for the first time the beautiful photographs throughout this practical guide illustrate the design and build techniques described and showcase the diverse possibilities of straw bale building The fully revised text includes step by step illustrations of key techniques and also looks at the full

international context of building with straw bales This book is ideal for anyone looking to build more sustainably and integrate straw bales into their design **Straw Bale Construction Manual** Gernot Minke, Benjamin Krick, 2020-06-08

Bereits vor gut 100 Jahren wurde in Nebraska die Technik des Bauens mit Strohballen entwickelt Durch das Stapeln und Verbinden der Ballen lie en sich preisg nstig Wohnh user errichten Seit einiger Zeit erlebt dieser Baustoff in vielen Teilen der Erde eine Renaissance Die H user sind wirtschaftlich da sie zum Teil in Eigenleistung errichtet werden k nnen und kologisch sinnvoll da der Rohstoff nachwachst und sehr gute D mmeigenschaften aufweist Das Buch zeigt praxisnah die Konstruktion von Strohbauten Es er rtert die wichtigen Themen Brandsicherheit N sseschutz und Verhinderung von Sch dlingsbefall und dokumentiert die Montage Schritt f r Schritt mit Baustellenfotos 30 ausgew hlte Projekte zeigen das vielf ltige Gestaltungspotential dieses Materials The New Net Zero Bill Maclay, 2014

The new threshold for green building is not just low energy it s net zero energy In The New Net Zero sustainable architect Bill Maclay charts the path for designers and builders interested in exploring green design s new frontier net zero energy structures that produce as much energy as they consume and are carbon neutral In a nation where traditional buildings use roughly 40 percent of the total fossil energy the interest in net zero building is growing enormously among both designers interested in addressing climate change and consumers interested in energy efficiency and long term savings Maclay an award winning net zero designer whose buildings have achieved high performance goals at affordable costs makes the case for a net zero future explains net zero building metrics integrated design practices and renewable energy options and shares his lessons learned on net zero teambuilding Designers and builders will find a wealth of state of the art information on such considerations as air water and vapor barriers embodied energy residential and commercial net zero standards monitoring and commissioning insulation options costs and more The comprehensive overview is accompanied by several case studies which include institutional buildings commercial projects and residences Both new building and renovation projects are covered in detail The New Net Zero is geared toward professionals exploring net zero design but also suitable for nonprofessionals seeking ideas and strategies on net zero options that are beautiful and renewably powered **Energy-Efficient Timber-Glass Houses** Vesna Źegarac Leskovar, Miroslav Premrov, 2013-09-30

The book discusses combining timber and glass two eco materials with a view to developing an optimal contemporary energy efficient house with an attractive design Furthermore the book connects an architectural design approach with structural research to show the possibilities of stabilizing the building with an increased size of the glazing Research results where the glazing is considered as a load bearing structural element are therefore presented in a manner leading to the development of an optimal model of the timber glass house considering both the structural and energy related aspects The presented research work can be useful to designers and future experts in their planning of optimal energy efficient timber buildings The study is based on using timber and glass which were previously neglected as construction materials With suitable technological development and appropriate use they are nowadays

becoming essential construction materials as far as energy efficiency is concerned However their combined use is extremely complicated from both the constructional point of view as well as from that of energy efficiency and sets multiple traps for designers A good knowledge of their advantages and drawbacks is thus vitally important which is shown in the present monograph Energy efficient timber glass houses was selected by the Slovenian National Research Agency as an extraordinary scientific achievement in the field of technical sciences civil engineering for the year 2013

The Eco-Home Design Guide Christopher Day, 2015-10-29 The key principles of designing a pleasant comfortable and healthy eco home with a foreword written by HRH The Prince of Wales now King Charles III Designing an eco home is much more about working with your house's location and situation than relying on intrusive technology and hi tech materials With the soaring energy bills and the climate crisis it is now more important than ever to invest in a home that is considerate of keeping heat in In this handbook architect Christopher Day draws on his extensive experience to explain the key principles of eco home design using common sense methods Packed full of practical information it includes several case studies of eco homes reviewing with hindsight what worked well and what could have been better There is also guidance on how to generate energy upgrading old buildings and site planning With beautifully hand drawn illustrations Christopher explores how to use local topography combined with landscaping to improve your home's microclimate and keep your house dry and warm in the winter and cool in the summer There are also handy tips on how to minimise hidden environmental impacts and ideas on ways to make your home a safe and healthy place both emotionally and physically The Eco Home Design Guide is essential for anyone who wants to create an attractive environmentally friendly home that is in harmony with its location

Building Surveyor's Pocket Book Melanie Smith, Christopher Gorse, 2021-05-26 This handy book brings together a wealth of useful information that building surveyors need on site or in the office It provides clear guidance and fundamental principles in key practice areas such as building pathology building performance and building forensics The book is not overly bound by the regulation and legislation of one region and the principles can be applied internationally Compact portable and easy to use the Building Surveyor's Pocket Book helps surveyors anyone studying for their RICS APC and students get access to the basics fast

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