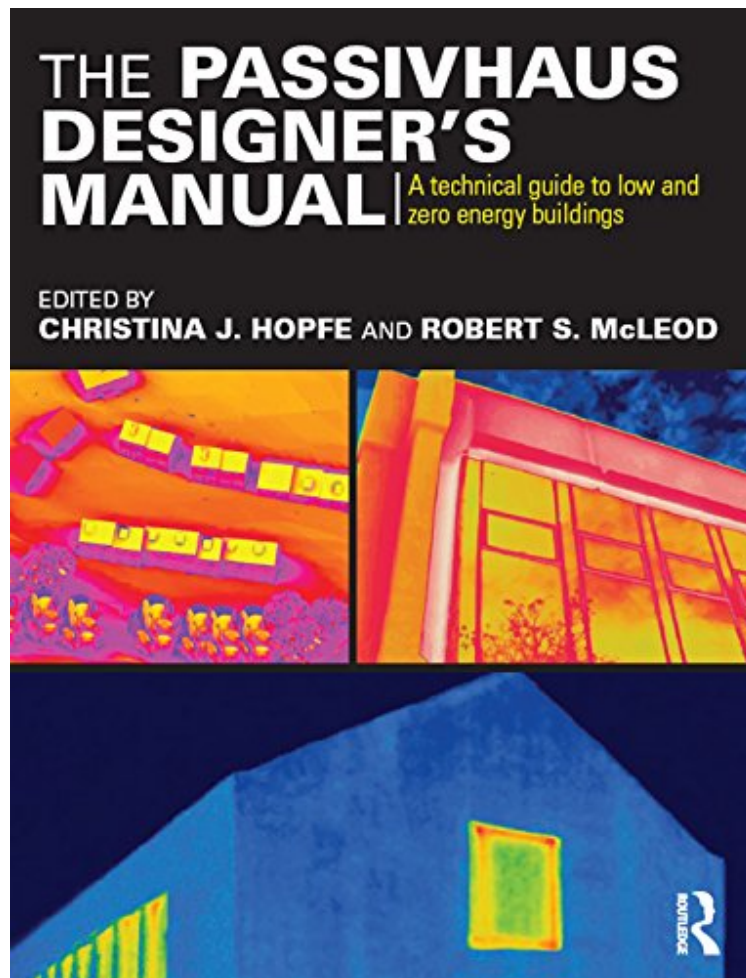


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Passivhaus is the fastest growing energy performance standard in the world, with almost 50,000 buildings realised to date. Applicable to both domestic and non-domestic building types, the strength of Passivhaus lies in the simplicity of the concept. 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 is an excellent guide to the many facets of Passivhaus design. And it will become the reference book of choice for many Passivhaus Designers.' - Elrond Burrell 'There's a mystique around the whole idea of Passivhaus, and there really shouldn't be. As this amazing manual so powerfully reveals, it's a simple, elegant set of design principles, in which lies the promise of a truly sustainable built environment for everyone, anywhere in the world.' - Jonathon Porritt, Founder and Director, Forum for the Future, UK 'Much more than a design guide for Passivhaus, this manual provides an excellent holistic view of good, low energy and sustainable design practice with contributions from a range of international experts. Principles, theory, and practice are clearly explained without recourse to detailed mathematical analysis making this guide accessible to a wide range of professionals; an impressive level of detail and scope.' - Michael Holmes, consultant to Arup and principal author of CIBSE Guide A (Section 5 – Thermal Design), UK 'The Passivhaus Designer's Manual perfectly illustrates that energy doesn't have to be associated with something dirty or negative. It can be innovative, techy, clean, some would even say sexy. There is great room for creativity when it comes to energy efficiency, and this book is the proof of that.' - Maroš Šefčovič, Vice President of the European Commission for Energy Union, Belgium 'A very useful reference which adds to the knowledge and understanding of the Passivhaus standard as a potential solution to the need to reduce energy consumption.' - Andrew McFarlane, Building Engineer

About the Author
Christina J. Hopfe is a Senior Lecturer (Associate Professor) in Sustainable Building Design at Loughborough University. She is a Chartered Engineer and a Member of CIBSE. She has a Dipl-Ing in Civil Engineering from TU Darmstadt, Germany, and a PhD in Building Performance Simulation from TU/e, the Netherlands. Robert S. McLeod is an Associate of the Building Research Establishment and a freelance building performance consultant. He is one of the UK's leading Passivhaus designers and experts in low carbon design. He has a PhD in Building Physics from Cardiff University and is a Chartered Engineer and a Member of IMechE.