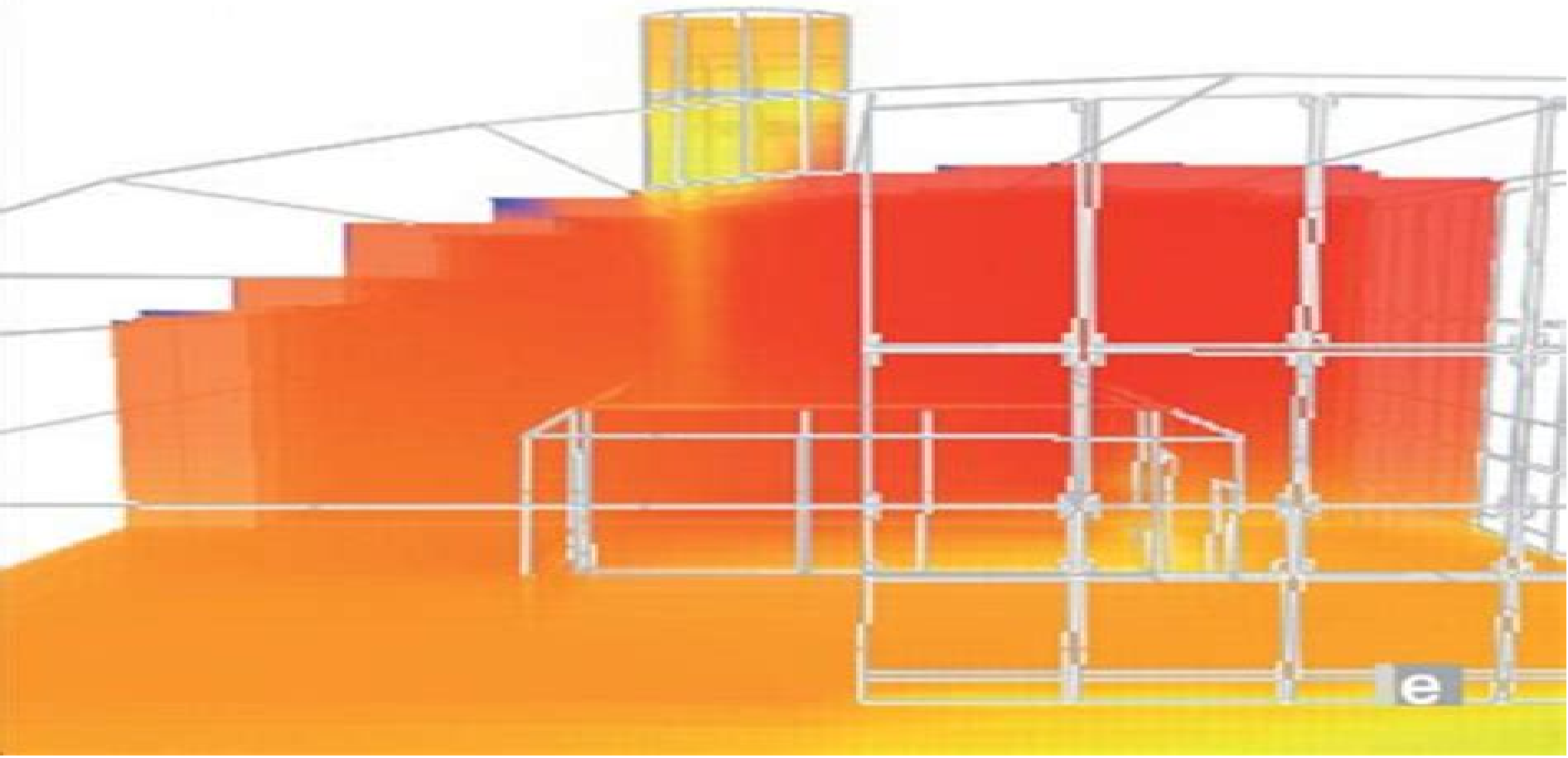


Designing Zero Carbon Buildings Using Dynamic Simulation Methods

Ljubomir Jankovic



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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 **Sustainable**

Retrofitting of Commercial Buildings Simon Burton, 2014-10-03 Whilst sustainability is already an important driver in the new building sector this book explores how those involved in refurbishment of commercial building are moving this agenda forward It includes chapters by developers surveyors cost consultants architects building physicists and other players on the role they each can play in enabling refurbishment to be commercially environmentally and socially sustainable Case studies from northern climates show real examples of different building types ages and uses and will demonstrate what action has been taken to create more sustainable buildings The chapters raise and discuss all the relevant issues that need to be considered in retrofitting decision making Changing standards planning process management financing technical issues site organisation commissioning and subsequent building management are all considered The book demonstrates that buildings can be made comfortable to occupy easy to manage and low in energy demand and environmental impact **Teaching**

Carbon Neutral Design in North America Robin Z. Puttock, 2025-03-12 This book brings to light a diverse range of innovative architectural design studio methodologies formulated to educate future graduates to combat the climate crisis through carbon neutral design Award winning professors detail tried and tested studio methodologies outlining their philosophical rationale the role of precedent study design concept and professional partnerships the approach to analytics and software design development required readings assignment and student work examples and anticipated future innovation Chapters are grouped under varying focal points including community empowerment bioclimatic response performance analytics design build and urban scale all adopting a holistic view of sustainable design that incorporates technical challenges as well as those of equity and social justice This heterogeneous compilation of strategies encourages wide accessibility to and acceptance by studio professors as well as administrators and faculty developing architecture curricula This will in turn maximize the impact on curtailing carbon emissions resulting from the construction and operations of our built environment **Sustainability in Energy and Buildings** Anne Hakansson, Mattias Höjer, Robert J.

Howlett, Lakhmi C Jain, 2013-03-29 This volume contains the proceedings of the Fourth International Conference on Sustainability in Energy and Buildings SEB12 held in Stockholm Sweden and is organized by KTH Royal Institute of Technology Stockholm Sweden in partnership with KES International The International Conference on Sustainability in Energy and Buildings focuses on a broad range of topics relating to sustainability in buildings but also encompassing energy sustainability more widely Following the success of earlier events in the series the 2012 conference includes the themes

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