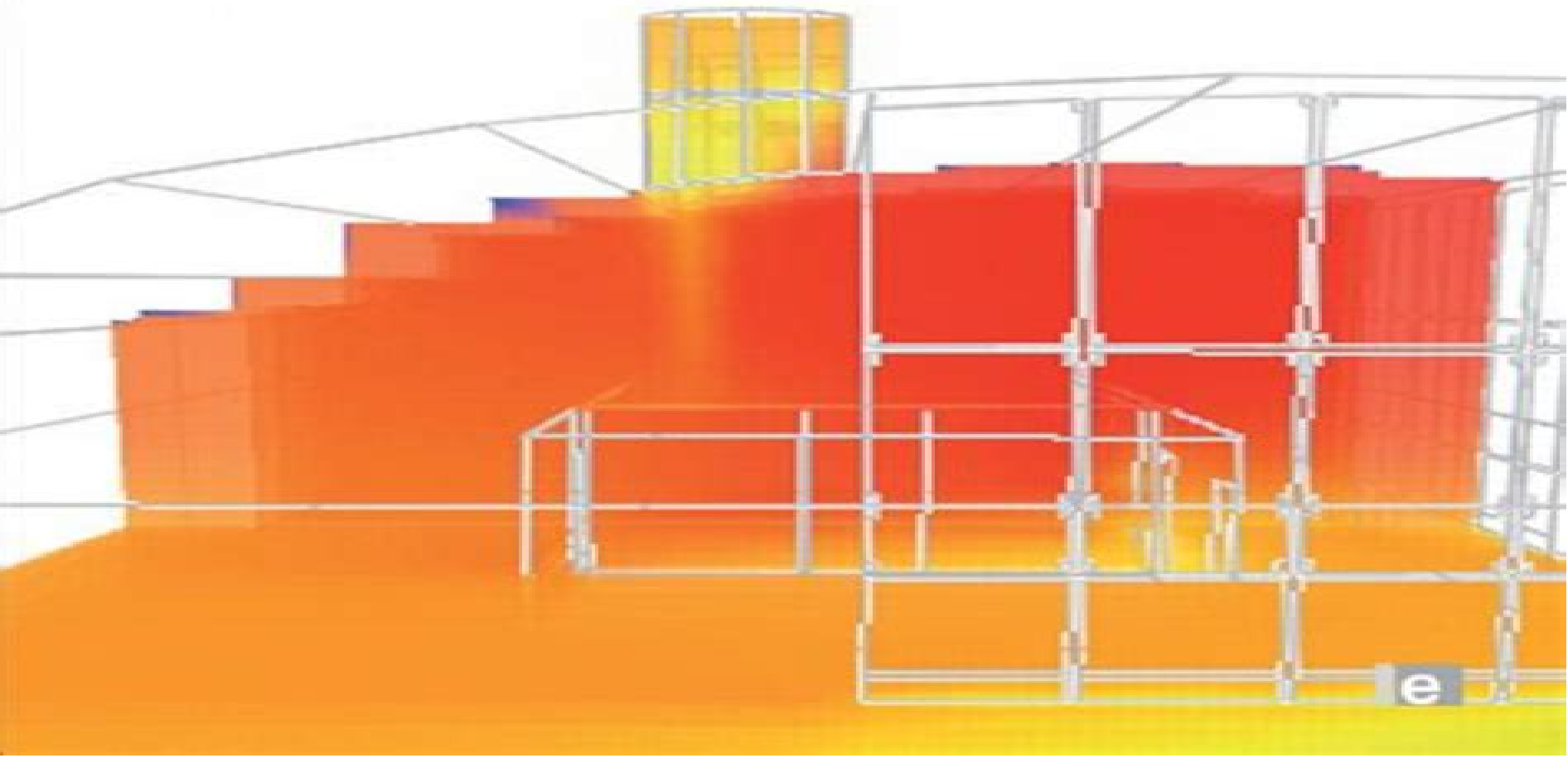


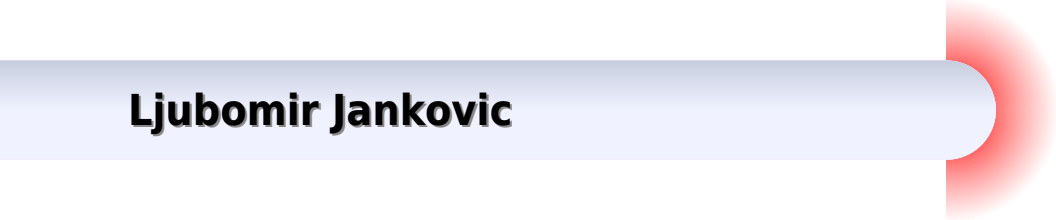
Designing Zero Carbon Buildings Using Dynamic Simulation Methods

Ljubomir Jankovic



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Ljubomir Jankovic



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Designing Zero Carbon Buildings Using Dynamic Simulation Methods Ljubomir Jankovic, 2013-07-03 As we increasingly become aware of the causes and consequences of the climate change there is a sense that we are dealing with an almost impossible problem to solve that our targets for zero carbon buildings are far in the future and that our targets are hard to achieve This book develops a structured method for zero carbon design and demonstrates that it is perfectly possible to design new or retrofit zero carbon buildings today using existing technologies Dynamic simulation is an essential ingredient of this method and a pre requisite for the level of analysis and optimization that is needed in order to achieve zero carbon design The second essential ingredient is the economic analysis and the book demonstrates how zero carbon designs can be optimised to result in lucrative rates of return on investment The third essential ingredient is the achievement of thermal comfort The book argues that zero carbon living is not about a considerable change of behaviour but that it is about design that works with climate rather than against it that uses predominantly passive rather than active means for achieving thermal comfort and that is well tested integrated and optimised using dynamic simulation Using this method designers can start making a difference today This book therefore makes a case for change a change of our perceptions that we are dealing with an impossible problem to solve a change of our business and economic models and a change of our attitudes towards zero carbon design and zero carbon living

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 Sustainability Energy and Buildings and Information and

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eWork and eBusiness in Architecture, Engineering and Construction Gudni Gudnason, Raimar Scherer, 2012-07-06 Since 1994 the European Conferences of Product and Process Modelling www.ecppm.org have provided a review of research development and industrial implementation of product and process model technology in the Architecture Engineering Construction and Facilities Management AEC FM industry Product Building Information Modelling has matured sig

Routledge Handbook of Sustainable Heritage Kalliopi Fouseki, May Cassar, Guillaume Dreyfuss, Kelvin Ang Kah Eng, 2022-07-29 This handbook presents cutting edge and global insights on sustainable heritage engaging with ideas such as data science in heritage climate change and environmental challenges indigenous heritage contested heritage and resilience It does so across a diverse range of global heritage sites Organized into six themed parts the handbook offers cross disciplinary perspectives on the latest theory research and practice Thirty five chapters offer insights from leading scholars and practitioners in the field as well as early career researchers This book fills a lacuna in the literature by offering scientific approaches to sustainable heritage as well as multicultural perspectives by exploring sustainable heritage in a range of different geographical contexts and scales The themes covered revolve around heritage values and heritage risk participatory approaches to heritage dissonant heritage socio environmental challenges to heritage sustainable heritage led transformation and new cross disciplinary methods for heritage research This book will be an invaluable resource for students and scholars in heritage studies archaeology museum studies cultural studies architecture landscape urban design planning geography and tourism [Building Thermal Performance and Sustainability](#) Vijayalaxmi J., 2023-03-15 This book highlights the various aspects of architectural research based on field studies and real time data including the data collection methods and the methodology and materials required The output of every study is knowledge based and informed decision that helps architects and designers in decision making process at an early stage The output of the book bridges the architectural research methods and its application in contemporary world through a thorough understanding of sustainable building materials construction techniques and its quantified consequences on thermal performance This book is aimed at researchers and professionals to assist in understanding the strategies tactics and methods of a scientific approach to assess building performance through real life case studies from India The implication of what is being done in the contemporary world is highlighted which will help practicing architects make design decisions *International Aerospace Abstracts*, 1997

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