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Intelligent facade system with active thermal protection

Intelligent Facade System With Active Thermal Protection

Marie Frier Hvejsel, Paulo J.S. Cruz



Intelligent Facade System With Active Thermal Protection:

Smart Architecture - A Sustainable Approach for Transparent Building Components Design Valentina

Frighi,2021-08-25 This book explores the specific role that glazing technologies play within the world of smart architecture as important components of contemporary and future sustainable architectural and technological research Smart Architecture begins with a definition of the concept of smart in architecture and examines how innovative technologies and materials have shaped buildings over the years The author then provides a supporting database of contemporary smart architecture mapping adopted strategies recognizing common patterns and evaluating current and future trends in the context of smart building envelopes energy efficiency and the development of high potential innovative building components The book proceeds with a focus on the specific role that glazing technologies play in this framework and provides a systematic methodology to quantify options for the effective integration of transparent building components within advanced and innovative building envelope systems

Active House: Smart Nearly Zero Energy Buildings Lone Feifer,Marco Imperadori,Graziano Salvalai,Arianna Brambilla,Federica Brunone,2018-06-14 The book provides an overview of the Active House AH vision intended as a building design method beyond the passive approach for buildings of the future that will be more and more connected smart and innovative It offers a novel philosophical design approach in which buildings new or renovated are in balance with natural renewable energies and become concentrators distributors of energies instead of being consumers of resources The book is composed of five chapters providing information on fundamental aspects of innovations toward resource efficient buildings as well as case studies presenting the concept in practice It demonstrates that a completely new design approach is possible and that a turning point has been reached Lastly it shows how the AH Alliance along with designers institutions industries and academies is bringing a breath of fresh air to the world of construction

Safety Aspects of Engineered Nanomaterials Wolfgang Luther,Axel Zweck,2016-04-19 With contributions from leading researchers and government experts involved with the safety assessment of nanomaterials this book gives an up to date review on the safety of engineered nanomaterials and their impact on health and the environment It covers the whole nanomaterial life cycle from production transport and distribution in the enviro

Sustainable Synergy: Harnessing Ecosystems for Climate Resilience Moharana Choudhury,Gopal Dixit,Sushobhan Majumdar,2025-01-16 Sustainable Synergy Harnessing Ecosystems for Climate Resilience will assemble a diverse collection of expert perspectives to explore the crucial relationship between ecosystems and climate resilience comprehensively This groundbreaking volume will bring together leading voices from various disciplines to present a multifaceted examination of ecosystems role in addressing the challenges posed by climate change Divided into thematic sections the edited volume will begin with a deep dive into the intricate dynamics of ecosystems providing a foundation for understanding their inherent resilience mechanisms Contributors including renowned scientists researchers and practitioners dissect the current climate crisis and elucidate how important

ecosystems can be in mitigating its effects The strength of this edited volume will lie in its synthesis of cutting edge research case studies and innovative strategies for sustainable environmental management Each chapter will contribute a unique perspective exploring biodiversity conservation ecosystem restoration and integrating indigenous knowledge into climate resilience efforts Beyond theoretical discussions the book will strongly emphasise practical applications Contributors share successful real world examples of ecosystem based solutions highlighting projects demonstrating tangible results in enhancing climate resilience These case studies provide inspiration and guidance for policymakers conservationists and anyone committed to fostering a sustainable future The interdisciplinary nature of Sustainable Synergy will foster a holistic understanding of the complex issues surrounding climate resilience The edited volume will be formulated to be accessible to a broad audience including academics practitioners policymakers and students Its structure will facilitate an engaging journey through ecology climate science and environmental policy making it an invaluable resource for those seeking a comprehensive overview of the subject As the global community grapples with the escalating impacts of climate change Sustainable Synergy Harnessing Ecosystems for Climate Resilience stands out as a seminal contribution By bringing together diverse perspectives this collection will serve as a dynamic resource that informs and inspires collective action toward a more resilient and sustainable future In the face of unprecedented environmental challenges this edited volume will emerge as a guiding light for those committed to leveraging the power of ecosystems for climate resilience

Enclose | Build Eva Maria Herrmann, Martin Krammer, Jörg Sturm, Susanne Wartzeck, 2015-07-01 The building shell is the interface with the outside world it offers protection and at the same time represents its owners or occupants But what are the criteria for choosing a specific shell Why is a particular material used on a particular undercoat The fifth volume of the SCALE series *Enclose Build* is not about the curtain the dressing of the facade that surrounds a building but rather on a causal level about the exterior termination of a building the wall the facade which can be made of various materials surfaces and achieves different design effects It shows the conditions under which certain constructions can be employed and why what criteria such as construction costs issues of sustainability of energy efficiency of assembly or of insulation or protection against moisture can also influence the choice of a system In addition to classical constructions *Enclose Build* offers a look at future developments How will the facade evolve as an interface for information What do viable concepts for environmentally active energy efficient building shells look like *Enclose Build* is an indispensable tool for every architect and planner

Evaluation of Energy Efficiency and Flexibility in Smart Buildings Alessia Arteconi, 2021-01-21 This Special Issue *Evaluation of Energy Efficiency and Flexibility in Smart Buildings* addresses the relevant role of buildings as strategic instruments to improve the efficiency and flexibility of the overall energy system This role of the built environment is not yet fully developed and exploited and the book content contributes to increasing the general awareness of achievable benefits In particular different topics are discussed such as optimal control innovative efficient technologies methodological approaches

and country analysis about energy efficiency and energy flexibility potential of the built environment The Special Issue offers valuable insights into the most recent research developments worldwide

Structures and Architecture. A Viable Urban Perspective? Marie Frier Hvejsel, Paulo J.S. Cruz, 2022-07-08 Structures and Architecture A Viable Urban Perspective contains extended abstracts of the research papers and prototype submissions presented at the Fifth International Conference on Structures and Architecture ICSA2022 Aalborg Denmark 6-8 July 2022 The book 578 pages also includes a USB with the full texts of the papers 1448 pages The contributions on creative and scientific aspects in the conception and construction of structures as architecture and on the role of advanced digital industrial and craft based technologies in this matter represent a critical blend of scientific technical and practical novelties in both fields Hence as part of the proceedings series Structures and Architecture the volume adds to a continuous exploration and development of the synergetic potentials of the fields of Structures and Architecture With each volume further challenging the conditions problems and potentials related to the art practice and theory of teaching researching designing and building structures as vehicles towards a viable architecture of the urban environment The volumes of the series appear once every three years in tandem with the conferences organized by the International Association of Structures and Architecture and are intended for a global readership of researchers practitioners and students including architects structural and construction engineers builders and building consultants constructors material suppliers planners urban designers anthropologists economists sociologists artists product manufacturers and other professionals involved in the design and realization of architectural structural and infrastructural projects

Green Solar Cities Peder Vejsig Pedersen, Jakob Klint, Karin Kappel, Katrine Vejsig Pedersen, 2015-02-11 The Green Solar Cities EU Concerto project focuses on the practical large scale implementation of solar energy technologies in combination with new build and retrofit low energy building in the cities of Copenhagen with its city part Valby in Denmark and Salzburg in Austria This book aims to influence decision makers in European cities towards a similar approach to the Green Solar Cities project in close cooperation with leading building component suppliers energy companies and engaged builders also working with local city officials This book will benefit those in a situation where many cities aim at a Smart City development but without clear policies of how to achieve that in practice In Denmark there are similar policies with an overall aim to be CO2 neutral by year 2025 in the city of Copenhagen However there is still a lack of understanding concerning how solar energy as the world's number one energy source can play a major role here and how this can be combined with energy efficiency policies use of district heating and combined heat and power The general aim is to introduce the international Active House standard and work on Active Roofs of the future The connection between solar energy and low energy building and energy renovation is aimed to be ensured by help of the Active House standard which has been developed in cooperation with a number of leading building component manufacturers in Europe

Design & Nature V Angelo Carpi, C. A. Brebbia, 2010 With the onward march of science and technology and the continuing quest for

improvement there is a growing curiosity about the world around us Close examination of structures in nature can be rewarding and surprising Nature has shown an extraordinary capacity to develop dynamic structures and systems over many millions of years and there is still much to be learnt Aimed at providing researchers in this subject with fresh impetus and inspiration this book consists of papers presented at the Fifth International Conference on Design and Nature The contributions reflect the rich variety of work currently taking place around the world and cover the following topics Nature and Architecture Mechanics in Nature Natural Materials and Processing Solutions from Nature Biomimetics Biomimetics and Bioinspiration Biocapacity Education in Design and Nature and Helical Design in Nature Smart Buildings Marco Casini, 2016-05-27 Smart Buildings Advanced Materials and Nanotechnology to Improve Energy Efficiency and Environmental Performance presents a thorough analysis of the latest advancements in construction materials and building design that are applied to maximize building efficiency in both new and existing buildings After a brief introduction on the issues concerning the design process in the third millennium Part One examines the differences between Zero Energy Green and Smart Buildings with particular emphasis placed on the issue of smart buildings and smart housing mainly the envelope and how to make it more adaptive with the new possibilities offered by nanotechnology and smart materials Part Two focuses on the last generation of solutions for smart thermal insulation Based on the results of extensive research into more innovative insulation materials chapters discuss achievements in nanotechnology bio ecological and phase change materials The technical characteristics performance level and methods of use for each are described in detail as are the achievements in the field of green walls and their use as a solution for upgrading the energy efficiency and environmental performance of existing buildings Finally Part Three reviews current research on smart windows with the assumption that transparent surfaces represent the most critical element in the energy balance of the building Chapters provide an extensive review on the technical features of transparent closures that are currently on the market or under development from so called dynamic glazing to bio adaptive and photovoltaic glazing The aesthetic potential and performance limits are also be discussed Presents valuable definitions that are given to explain the characteristics requirements and differences between zero energy green and smart buildings Contains particular focus on the next generation of construction materials and the most advanced products currently entering the market Lists both the advantages and disadvantages to help the reader choose the most suitable solution Takes into consideration both design and materials aspects Promotes the existence of new advanced materials providing technical information to encourage further use and reduce costs compared to more traditional materials

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