

# SUSTAINABLE FACADES

DESIGN METHODS **FOR** HIGH-PERFORMANCE BUILDING ENVELOPES

AJLA AKSAMIJA

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# Sustainable Facades Design Methods For High Performance Building Envelopes

**Guedi Capeluto, Carlos Ernesto Ochoa**



## **Sustainable Facades Design Methods For High Performance Building Envelopes:**

Sustainable Facades Ajla Aksamija, 2013-03-27 Practical information on designing sustainable energy efficient building facades As energy and other natural resources are being depleted it has become clear that technologies and strategies that allow us to maintain our satisfaction with interior environments while consuming less of these resources are major objectives of contemporary facade design Sustainable Facades focuses on the strategies and approaches for designing sustainable high performance building facades and provides technical guidance for architects and designers This timely and useful guide presents strategies and technical guidelines for designing environmentally sensitive energy efficient facades based on scientific principles It provides climate specific approaches for minimizing energy consumption analyzes the thermal behavior of different facade systems and materials and illustrates with case studies how these approaches have been implemented on architectural projects It also discusses emerging facade technologies materials and systems Topics covered in this unique and indispensable guide include Climate based design approaches for high performance facades Characteristics of sustainable facades energy efficiency thermal behavior and moisture resistance Designing for thermal comfort lighting and glare control and acoustic quality Emerging technologies in facade design including smart materials double skin facades and facades as energy generators Case studies on building orientation and facade design tectonic sun exposure control external shading elements and more Advances in Sustainable Building Materials, Design and Energy Systems Sanjay Kumar, Brahim ElBhiri, 2025-01-23 This book is a great opportunity to make the research community discuss the dangerous environmental challenges such as climate change and its huge effects in addition to the world's reliance on fossil fuel and non renewable resources In recent years the authors have been focused on the advancements of technology and how it can improve our lives but the authors often overlook the fact that it is creating an unsustainable approach that comes at a high cost which makes a sustainable approach to cities necessary focusing on accessible public transport energy water and food security and regenerating compact fabric areas To discuss how to reach this sustainable approach IEREK held the Advances in Energy Research Materials Science and Built Environment EMBE conference from October 3 to 4 2024 with attendees from all over the world It provides an opportunity to exchange ideas and solutions on urban planning sustainable architecture climate change mitigation and innovative design The EMBE conference hosts a variety of knowledgeable keynote speakers and researchers who discussed the integration of technology in sustainable urban planning green urbanism preservation of coastal areas innovative renewable materials and responsive architecture The book covers a wide range of scientific knowledge that can lead humanity toward a sustainable and greener future **Technology of the Multi-Layer Façade Systems** Ingrid Paoletti, Massimiliano Nistri, 2025-08-29 The book explores the design production and construction processes of the multi layer facade systems towards the principles of environmental and energy sustainability through the drafting of an explanatory and operative reference instrument The work provides the planning of a technical

guide focusing on the executive design and construction methodologies The scientific basis of the research implies the definition of the main functional typologies established on the analysis conducted on the experimental case studies with the aim of achieving a codification of the performance and executive potentialities The development of the book as a technical guide on the multi layer fa ade systems involves the possibilities of technology transfer towards different building types and intended uses with the aim of increasing hygro thermal lighting and acoustic performance through the application of technical skins devices and integrated screens on the external enclosures Moreover the book explains the modes of technology transfer through the use of standard and non customized products so as to improve the diffusion in the production and construction of mass produced systems and components

**Façade Design** ,2024-01-24 Fa ade design is a challenging task in which multidisciplinary issues and aspects should be optimally considered and addressed This is especially the case of building fa ades exposed to seismic events impacts or fire Special attention and major efforts are required for the detection and application of new technologies in the generation of modern adaptive fa ade systems This book presents a selection of research contributions to provide a comprehensive overview of fa ade design It discusses the experimental analysis and numerical investigation of existing or traditional fa ades as well as the development and optimal application of new technologies for modern adaptive fa ades and building envelopes

*Integrating Innovation in Architecture* Ajla Aksamija,2017-03-13 Today s design professionals are faced with challenges on all fronts They need not only to keep in step with rapid technological changes and the current revolution in design and construction processes but to lead the industry This means actively seeking to innovate through design research raising the bar in building performance and adopting advanced technologies in their practice In a constant drive to improve design processes and services how is it possible to implement innovations And moreover to assimilate them in such a way that design methods and technologies remain fully integrated Focusing on innovations in architecture this book covers new materials and design methods advances in computational design practices innovations in building technologies and construction techniques and the integration of research with design Moreover it discusses strategies for integrating innovation into design practices risks and economic impacts Through numerous case studies it illustrates how innovations have been implemented on actual architectural projects and how design and technical innovations are used to improve building performance as well as design practices in cutting edge architectural and engineering firms Projects of all scales and building types are discussed in the book ranging from small scale installations academic and commercial buildings to large scale mixed use healthcare civic academic scientific research and sports facilities Work from design firms around the globe and of various scales is discussed in the book including for example Asymptote Architecture cepezed CO Architects Consarc Architects FAAB Architektura Gerber Architekten HOK IDOM ACXT MAD Architects Morphosis Architects SDA Synthesis Design Architecture Studiotrope Perkins Will Richter Dahl Rocha Associ s Sn hetta Rob Ley Studio Trahan Architects UNStudio and Zaha Hadid Architects among

many others      **Energy Modeling and Computations in the Building Envelope** Alexander V. Dimitrov, 2015-08-27  
Energy Modeling and Computations in the Building Envelope instills a deeper understanding of the energy interactions between buildings and the environment based on the analysis of transfer processes operating in the building envelope components at the microscopic level The author Proposes a generalized physics model that describes these interactions

**Material Balance** Ingrid Paoletti, Massimiliano Natri, 2020-09-30 This book argues that we are living in an era of deep mutation and the anthropocentric model no longer fits our way of living and behaving on Earth Climate change is upsetting our relationship with nature and the environment while artificial intelligence scenarios undermine the foundations of human life As the pressure to re align based on new modes of living and consuming increases the first priority should be to address the way we imagine design produce and construct our built environment The highly original book explores how the relation between design technology and material cultures can underpin and drive this change It discusses the need for a new material balance to develop our design practice not only from an energy and environmental perspective but also from a physiological cultural and semantic one in order to re balance the impact of material design on society This publication is an excellent guide to understanding in detail the theoretical framing of several crucial topics in material balance design from

computational knitting to material agency and from new acoustic ecology to future facade technologies bio based design and ultimately non anthropocentric habitats offering insights into preferable future scenarios      *Intelligent Envelopes for High-Performance Buildings* Guedi Capeluto, Carlos Ernesto Ochoa, 2016-11-09 This book presents a series of significant methods and examples for the design of sustainable intelligent facades in a variety of contexts Emphasis is placed on how intelligence has been applied for successful energy saving efforts in the planning of building envelopes Readers will find essential information on the core principles involved in designing calculating and organizing intelligent facades according to the need for a new or retrofitted building Not only are different materials and technologies considered but also efficient ways to combine them according to user needs and other project specific constraints Illustrations tables and graphs accompany the text clarifying the concepts discussed Architects facade consultants and all those interested in and energy saving measures and improved indoor comfort will find this book useful not only as an introduction to the subject but also as a guide to achieving more responsive building methods

**Computer-Aided Architectural Design: The Next City - New Technologies and the Future of the Built Environment** Gabriela Celani, David Moreno Sperling, Juarez Moara Santos Franco, 2015-06-15 This book constitutes the refereed proceedings of the 16th International Conference on Computer Aided Architectural Design Futures CAAD Futures 2015 held in S o Paulo Brazil in July 2015 The 33 revised full papers presented were carefully reviewed and selected from 200 submissions The papers are organized in topical sections on modeling analyzing and simulating the city sustainability and performance of the built space automated and parametric design building information modelling BIM fabrication and materiality shape studies      Facade Engineering: Design and Implementation of

Building Facades Charles Nehme, Building facades are the first impression of any structure acting as a bridge between the external environment and the interior spaces Over the years the role of facades has evolved far beyond aesthetics transforming into dynamic systems that enhance energy efficiency occupant comfort and environmental sustainability Facade engineering as a multidisciplinary field is at the forefront of this transformation integrating architecture engineering and technology to create building envelopes that are not only visually striking but also high performing This book Facade Engineering Design and Implementation of Building Facades is a comprehensive exploration of the design functionality and execution of facades in modern buildings It is intended for architects engineers contractors students and professionals involved in the built environment offering insights into the critical considerations of facade design and implementation From material selection and weather protection to energy efficiency and integration with building services this book provides a holistic view of facade engineering It delves into sustainable practices the incorporation of advanced technologies and the challenges of retrofitting aging facades to meet modern standards Real world case studies and examples further enrich the content illustrating how innovative facade solutions can address the demands of contemporary architecture and urban development As the world shifts toward net zero energy buildings and climate resilient designs facades play an increasingly vital role in shaping sustainable and smart cities By understanding the principles and possibilities of facade engineering we can contribute to a built environment that not only meets the needs of today but also anticipates the challenges of tomorrow I invite you to join me on this journey into the fascinating world of facade engineering where creativity meets science and innovation drives progress Whether you are designing a new building upgrading an existing one or simply exploring the field this book offers the knowledge and inspiration to push the boundaries of what facades can achieve Facade Engineering - Concepts, Materials, Techniques and Principles of Construction ,2025-09-03 Facade engineering and design is a challenging task that requires the optimal consideration and addressing of multidisciplinary issues and aspects Over the past 15 years facades have become increasingly complex with dynamic and smart facades ability to adapt to changing temperature and lighting conditions Newly developed materials and technologies have broadened the scope of facade functions This book presents a selection of research contributions to provide a comprehensive overview of facade design focusing on material analysis strategies and approaches for energy efficient facades based on scientific sustainable principles as well as high performance requirements such as fire risk and heat transfer and environmental design and process methodologies Contributions focus on the development of new strategies for maintaining and designing traditional facades as well as the optimal application of new technologies for modern adaptive facades and building envelopes *Design and Construction of High-performance Homes* Franca Trubiano,2013 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

*Research Methods for the Architectural Profession* Ajla Aksamija, 2021-03-03 *Research Methods for the Architectural Profession* introduces research as a systematic process describes how to formulate research questions provides an in depth explanation of different research methods qualitative quantitative and experimental and explains how to select appropriate research methods and execute research studies It describes the process of documentation knowledge dissemination and application of research results in architectural design and practice Most importantly it provides guidelines for integrating research into profession and uses extensive case studies and practice relevant examples to illustrate main concepts procedures and applications Integrating research into practice is essential for developing new knowledge solving design and technical problems overcoming different types of challenges present in the contemporary profession and improving the design outcomes Innovation requires a much stronger correlation between research and design and it is pertinent for the future of architectural practice that research becomes an integral part of architectural profession This book provides a roadmap for successfully integrating research into architectural design and for establishing innovative practices regardless of a firm s size Written by an architecture professor with an extensive research and professional background specifically focusing on integrating research into practice and richly illustrated with over 150 color images this reference will be useful for both students and practitioners

**Unlocking the Potential of Building Envelopes** Andrea Giovanni Mainini, Tiziana Poli, Alberto Speroni, Matteo Cavaglià, Juan Diego Blanco Cadena, 2024-12-07 This book delves into the performance based design approach highlighting the necessity for bespoke adaptive and cognitive building envelopes that promote sustainable and positive behaviours throughout their lifecycle A key to unlock the building envelope s potential is the integration of advanced digital tools such as building information modelling BIM and digital twin technology which enable accurate simulation and optimization of energy efficiency decarbonization and human centric design aspects Moreover the work emphasizes the importance of a user centred approach in designing interactive and connected building envelopes thereby

fostering sustainable behaviours among occupants This focus on user engagement and education in optimizing building envelope utilization not only contributes to reducing the environmental impact but also enhances the quality of life well being and health of occupants In the era of digital and ecological transition the book serves as an essential guide to design and operate energy efficient responsive and user friendly building envelopes paving the way for a future where the built environment is a significant contributor to sustainability and human health *The Structural Engineer*, 2001 **Climate responsive building envelopes** Jacopo Gaspari, 2020-12-01 T00:00:00+01:00 1330 115 Integrating Building Performance with Design Elizabeth J. Grant, 2017-06-27 Integrating Building Performance with Design shows you the importance of designing for building performance early in your architectural design process The book offers you simple tools and exercises along with examples of built professional work and successful student projects illustrated by more than 100 full color images to help you with your work Topics include site solar orientation thermal comfort building enclosure daylighting passive heating and cooling active heating and cooling indoor air quality stormwater and rainwater harvesting 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

**Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards**, 2008 **Rethinking Building Skins** Eugenia Gasparri, Arianna Brambilla, Gabriele Lobaccaro, Francesco Goia, Annalisa Andaloro, Alberto Sangiorgio, 2021-12-08 Rethinking Building Skins Transformative Technologies and Research Trajectories provides a comprehensive collection of the most relevant and forward looking research in the field of facade design and construction today with a focus on both product and process innovation The book brings together the expertise creativity and critical thinking of more than fifty global innovators from both academia and industry to guide the reader in translating research into practice It identifies new opportunities for the construction sector to respond to present challenges towards a more sustainable efficient connected and safe future Key features Introduces the reader to the role of facades with respect to the main challenges ahead Provides an overview of the major facade technological advancements throughout history and identifies prospective research trajectories Includes



interviews with key industry players from different backgrounds and expertise Showcases a comprehensive range of leading research topics in the field organised by product and process innovation Covers major innovations across the value chain including fa ade design fabrication construction operation and maintenance and end of life Contributes towards the definition of an international research agenda and identifies emerging market opportunities for the fa ade industry This book will be of particular use to researchers in the field of fa ade design and construction as well as professionals working in the industry

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