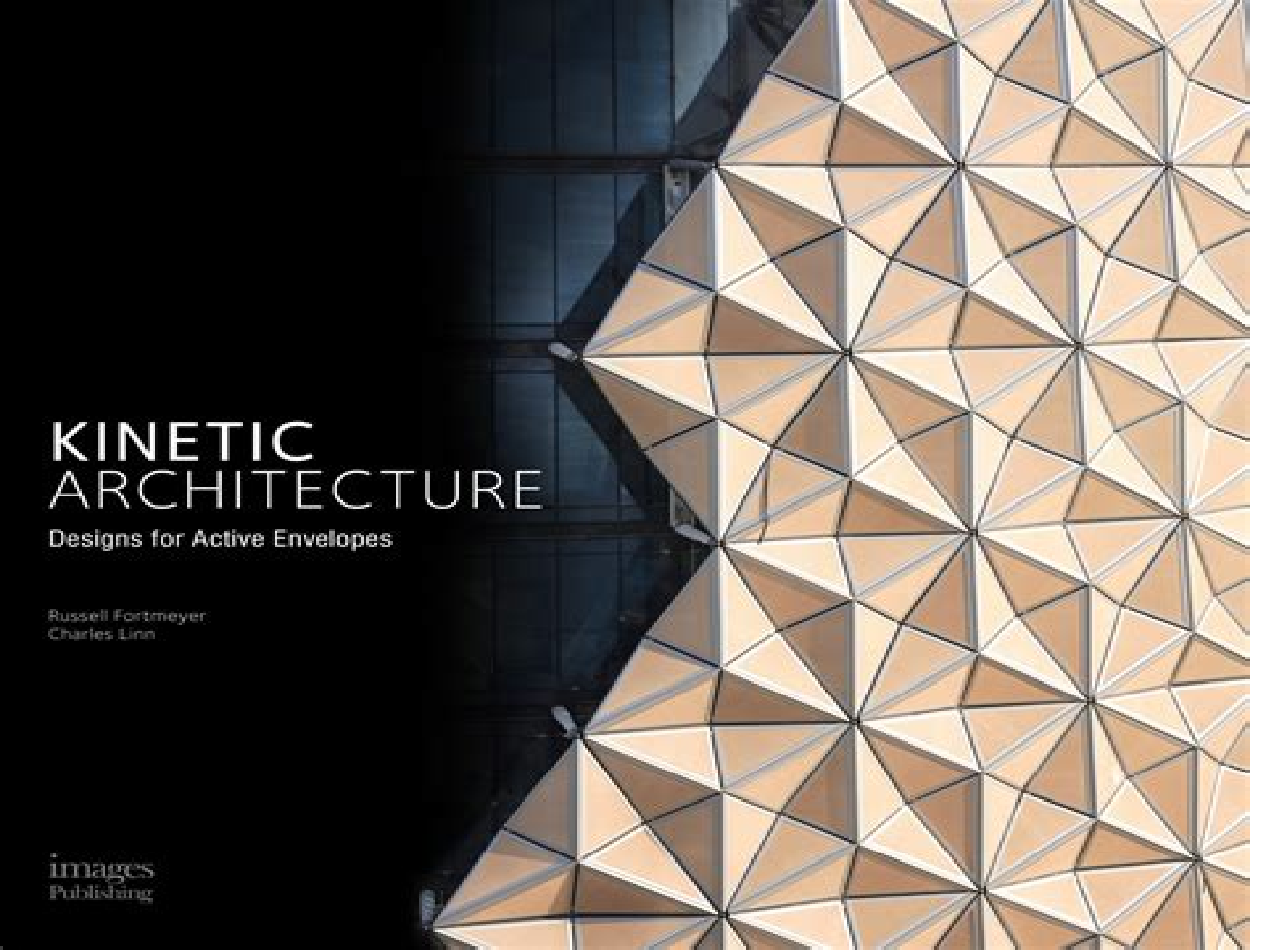




KINETIC ARCHITECTURE

Designs for Active Envelopes

Russell Fortmeyer
Charles Linn

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Kinetic Architecture Designs For Active Envelopes

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Kinetic Architecture Designs For Active Envelopes:

Kinetic Architecture Charles Linn, The Images Publishing Group, 2014-01-17 A shift in the architecture industry's focus in the last 20 years toward ecological concerns long term value and user comfort has coincided with significant new developments in digital controls actuators shading typologies building physics simulation capability and material performance This collision has afforded architects an expanded set of opportunities to create architecture that can respond directly to environmental conditions resulting in innovative façade designs that quickly become landmarks for their cities Authors Russell Fortmeyer and Charles Linn trace the historical development of active façades in modern architecture and reveal how contemporary architects and consultants design and test these systems

Executive Design of the Façade Systems Ingrid Paoletti, Massimiliano Nistri, 2023-09-25 The book examines the typological and technological constitution of the principal advanced façade systems in the contemporary design and experimental scenario proposing itself as a knowledge and operational tool currently lacking in the technical literature of the sector at an international level It considers the field of advanced façade systems in a scientific way constituting a support for the study and the executive design The book investigates in detail in an analytical form the constitution of the components on a typological and geometrical functional and constructive level on the basis of the documents and knowledges acquired from the essential contemporary production and construction references At the same time the book is configured in a handbook form as a reference for understanding and application with respect to traditional and complex façade systems For each main type of façade the book provides explanations and scientific information for investigating and designing the advanced façades according to the characteristics of the mullions and transoms façade system stick system of the structural sealant glazing façade system of the unit façade system of the suspended façade system and of the double skin façade system

Building Automation and Digital Technologies Shahryar Habibi, 2022-03-17 Building automation systems and digital technologies are highly relevant for the environmental and energy performance of buildings However a clear gap remains between architectural engineering and the use of such technologies Building Automation and Digital Technologies shows how to assimilate automation and digital technologies into making buildings smarter and more environmentally sustainable This book shows why architects need smart and digital systems in building design and construction and promotes innovative technological tools for improving sustainability It focuses on the development of automated environmental conditions and how new technology informs architectural engineering The book also provides new evidence on the impact of building automation systems and digital technologies such as the Internet of Things artificial intelligence and information and communication technology for developing a performance based approach to the environmental sustainability of buildings and provides a key reference for architects on how digital technology can inform their practice Its four chapters cover developing strategies for improving sustainable and smart buildings architectural practice and construction technology creativity and innovation in building

automation systems and the use phase of buildings Building Automation and Digital Technologies meets a critical need for a sustainable and smart built environment from an architectural perspective providing an important reference to architects and professionals in related fields by demonstrating the assimilation of the latest information and automation technologies Puts forward an architectural perspective on the design and construction of smart sustainable buildings Presents the use of digital technologies for design and construction Bridges the gap between architectural engineering and the use of automation and digital technology Considers the development of automated environmental conditions and new technology

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

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

PRACTICE: Computational Processes in Architecture and Design Michael Rigglin, 2016-06-19
Conference Proceedings of the 2015 PRACTICE Symposium of Computational Processes in Architecture and Design chaired by Rajaa Issa and Michael Rigglin Includes papers presented at the conference and a poster session of work Papers included Essential Education for Computational Design in Architecture by Rajaa Issa FPD First Person Designer by Ben Regnier Dynamic Acoustics From Parametric Design to Digital Fabrication by Erik Luhtala Immersive Environments and Gestural Modeling by P Casey Mahon Dynamic Architectural Systems by Anthony Mull Urban Acupuncture Through Algorithmic Zoning by Ryan Stangl Computational Architecture Quantifying the Qualitative by Hannah Hobbs and Practical Deformation A Study of Wood Bending Techniques Through Computational Logic by Jose Villamizar Poster session includes work by Andrew Reeder Erik Luhtala Anthony Mull Roger Flores and student work from courses taught by Rajaa Issa and Michael Rigglin

exlibris Giovanni Corbellini, 2022-05-18 Architects write a lot especially now when conceptual aspects have become central in the advanced reflections and narrative forms increasingly intersect the quest of design practices far an ultimate legitimization In the growing mass of the publishing offer these keywords try to highlight recurrent issues tracking synthetic paths of orientation between different critical positions with particular attention to what happens in the neighbouring fields of the arts and sciences

Bioclimatic Double-Skin Façades Mary Ben Bonham, 2019-11-20 Visually enriched with over 250 photographs and drawings Bioclimatic Double Skin Fa ades is an essential reference guide for understanding the types and functions of double skin fa ades Author Mary Ben Bonham examines the history and continuing potential of double skin architecture informing on the variety of approaches possible and advising a rigorous integrated design process leading to application Featuring a wide selection of architectural examples the book will be of interest to professionals and students within the fields of architecture engineering and construction Characterized by a buffer like air space between two glazed building skins double skin windows and fa ades aim to improve building comfort and energy performance Double skins introduce complexity and initial costs yet significant buildings in locations around the globe continue to select this approach In addition to exploring motivations benefits and cautions for designing with double skins the book provides a primer on fundamental fa ade design concepts and strategies for control of thermal luminous and acoustic environments Chapters also address alternative types of high performance fa ades and implications for each phase of fa ade design and construction Bioclimatic Double Skin Fa ades promotes bioclimatic design that is inspired by nature measured in performance and uniquely adapted to climate and place In depth case studies illustrate how double skin fa ades have been adapted to a range of climates and cultural settings Marseille Library and Grenoble Courthouse in France Cambridge Public Library in Massachusetts Manitoba Hydro Place in Canada and the Pearl River Tower in China

Design Computing and Cognition'20 John S. Gero, 2022-02-24 The papers in this volume are from the Ninth International Conference

on Design Computing and Cognition DCC 20 held virtually at the Georgia Institute of Technology Atlanta USA They represent the state of the art of research and development in design computing and design cognition including the increasingly active area of design cognitive neuroscience They are of particular interest to design researchers developers and users of advanced computation in designing as well as to design educators This volume contains knowledge about the cognitive behavior of designers which is valuable for those who need to gain a better understanding of designing *Biotechnologies and Biomimetics for Civil Engineering* Fernando Pacheco Torgal, J. A. Labrincha, M. V. Diamanti, C.-P. Yu, H. K. Lee, 2014-08-16 Putting forward an innovative approach to solving current technological problems faced by human society this book encompasses a holistic way of perceiving the potential of natural systems Nature has developed several materials and processes which both maintain an optimal performance and are also totally biodegradable properties which can be used in civil engineering Delivering the latest research findings to building industry professionals and other practitioners as well as containing information useful to the public *Biotechnologies and Biomimetics for Civil Engineering* serves as an important tool to tackle the challenges of a more sustainable construction industry and the future of buildings Daylighting and electric lighting retrofit solutions Aktuna, Berat, Bueno, Bruno, Darula, Stanislav, Deneyer, Arnaud, Diakite, Aicha, Fuhrmann, Peter, Geisler-Moroder, David, Hubschneider, Carolin, Johnsen, Kjeld, Kostro, Andre, Malikova, Marta, Matusiak, Barbara, Prella, Patrick, Pohl, Wilfried, Tao, Luo, Tetri, Eino, 2016-11-03 Energy efficient lighting is said to be one of the most cost effective approaches to save energy and reduce CO2 emissions In order to stimulate the application of lighting retrofits of good quality IEA Task 50 Subtask B Daylighting and Electric Lighting solutions has looked into the assessment of existing and new technical retrofit solutions in the field of facade and daylighting technology electric lighting and lighting controls The document provides information for those involved in the development of retrofit products or involved in the decision making process of a retrofit project such as buildings owners authorities designers and consultants as well as the lighting and facade industry This source book addresses both electric lighting solutions and daylighting solutions and offers a method to compare these retrofit solutions on a common basis including a wide range of quality criteria of cost related and lighting quality aspects Simple retrofits such as replacing a lamp or adding interior blinds are widely accepted often applied because of their low initial costs or short payback periods The work presented in this report aims at promoting state of the art and new lighting retrofit approaches that might cost more but offer a further reduction of energy consumption while improving lighting quality to a greater extent *Energieeffiziente Beleuchtung ist eine der effektivsten Möglichkeiten Energie zu sparen und damit die Emission von CO2 zu vermindern Im Rahmen des IEA Task 50 Subtask B Daylighting and Electric Lighting solutions wurden daher neue und vorhandene technische Sanierungslösungen für Gebäude in den Bereichen Fassade Tageslichttechnik künstliche Beleuchtung sowie Lichtsteuerung bewertet um die Anwendung hochwertiger Lösungen voranzutreiben Die Informationen sind dabei für alle in den Sanierungsprozess einbezogenen Personen von großem Interesse*

wie z B Geb udeeeigent mer Beh rden Planer und Berater aber auch f r Hersteller und Entwickler von Beleuchtungs und Fassadenl sungen Betrachtet werden sowohl k nstliche als auch Beleuchtungsl sungen mit Tageslicht wobei eine Methode entwickelt wurde die Sanierungsl sungen grundlegend miteinander zu vergleichen Hierbei werden zahlreiche Kriterien ber cksichtigt die energetische lichttechnische thermische und kostenbezogene Aspekte beinhalten Einfache Sanierungsma nahmen wie der Austausch von Lampen oder die Montage innenliegender Jalousien werden weitgehend akzeptiert und oft verwendet da sie kosteng nstig sind und sich schnell amortisieren Die vorliegende Arbeit hat es sich zum Ziel gesetzt die Anwendung neuer und dem Stand der Technik entsprechender Beleuchtungsl sungen f r die Sanierung zu f rdern Diese verursachen zwar eventuell h here Kosten erm glichen jedoch eine weitere Energieeinsparung bei gleichzeitiger Verbesserung der Beleuchtungsqualit t

Material Balance Ingrid Paoletti, Massimiliano Nistri, 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 fa ade technologies bio based design and ultimately non anthropocentric habitats offering insights into preferable future scenarios

Constructing Building Enclosures Clifton Fordham, 2020-07-21 Constructing Building Enclosures investigates and interrogates tensions that arose between the disciplines of architecture and engineering as they wrestled with technology and building cultures that evolved to deliver structures in the modern era At the center of this history are inventive architects engineers and projects that did not settle for conventional solutions technologies and methods Comprised of thirteen original essays by interdisciplinary scholars this collection offers a critical look at the development and the purpose of building technology within a design framework Through two distinct sections the contributions first challenge notions of the boundaries between architecture engineering and construction The authors then investigate twentieth century building projects exploring technological and aesthetic boundaries of postwar modernism and uncovering lessons relevant to enclosure design that are typically overlooked Projects include Louis Kahn s Weiss House Minoru Yamasaki s Science Center Sigurd Lewerentz s Chapel of Hope and more An important read for students educators and researchers within architectural history construction history building technology and design this volume sets out to disrupt common assumptions of how we

understand this history [Towards Users' Optimal and Pleasurable Experience in Smart Environments](#) Mi Jeong Kim,Xiangyu Wang,Inhan Kim,2020-12-23 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org/about/contact

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

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

Sustainable Building for a Cleaner Environment Ali Sayigh,2018-07-12 This book contains selected papers presented during the bi annual World Renewable Energy Network's Med Green Forum aimed at the international community

as well as Mediterranean countries This forum highlights the importance of growing renewable energy applications in two main sectors Electricity Generation and the Sustainable Building Sector In depth chapters highlight the most current research and technological breakthroughs covering a broad range of renewable energy technologies and applications in all sectors for electricity production heating and cooling agricultural applications water desalination industrial applications and for the transport sectors *The Routledge Companion for Architecture Design and Practice* Mitra Kanaani,Dak

Kopec,2015-11-06 The Routledge Companion for Architecture Design and Practice provides an overview of established and emerging trends in architecture practice Contributions of the latest research from international experts examine external forces applied to the practice and discipline of architecture Each chapter contains up to date and relevant information about select aspects of architecture and the changes this information will have on the future of the profession The Companion contains thirty five chapters divided into seven parts Theoretical Stances Technology Sustainability Behaviorism Urbanism Professional Practice and Society Topics include Evidence Based Design Performativity Designing for Net Zero Energy The Substance of Light in Design Social Equity and Ethics for Sustainable Architecture Universal Design Design Psychology Architecture Branding and the Politics of Identity The Role of BIM in Green Architecture Public Health and the Design Process Affordable Housing Disaster Preparation and Mitigation Diversity and many more Each chapter follows the running theme of examining external forces applied to the practice and discipline of architecture in order to uncover the evolving theoretical tenets of what constitutes today s architectural profession and the tools that will be required of the future architect This book considers architecture s interdisciplinary nature and addresses its current and evolving perspectives related to social economic environmental technological and globalization trends These challenges are central to the future direction of architecture and as such this Companion will serve as an invaluable reference for undergraduate and postgraduate students existing practitioners and future architects *The Routledge Companion to Paradigms of Performativity in Design and Architecture* Mitra Kanaani,2019-12-06

The Routledge Companion to Paradigms of Performativity in Design and Architecture focuses on a non linear multilateral ethical way of design thinking positioning the design process as a journey It expands on the multiple facets and paradigms of performative design thinking as an emerging trend in design methodology This edited collection explores the meaning of performativity by examining its relevance in conjunction with three fundamental principles firmness commodity and delight The scope and broader meaning of performativity performative architecture and performance based building design are discussed in terms of how they influence today s design thinking With contributions from 44 expert practitioners educators and researchers this volume engages theory history technology and the human aspects of performative design thinking and its implications for the future of design ***The Routledge Companion to Smart Design Thinking in Architecture & Urbanism for a Sustainable, Living Planet*** Mitra Kanaani,2024-11-11

This comprehensive companion surveys intelligent design thinking in architecture

and urbanism investigates multiple facets of smart approaches to design thinking that augment the potentials of user experiences as well as his her physical and mental interactions with the built environment Split into six paradigms this volume looks at the theoretical and historical background of smart design smart design methodologies and typologies smart materials smart design for extreme weather and climatic regions as well as climate change issues and side effects smart mobility and the role of digital technologies and simulations in architectural and urban design Often at odds with each other this volume places emphasis on smart design for various typologies and user groups emphasizing on advancements in form making and implementation of technology for healthy and sustainable living environments Written by emerging and established architects planners designers scientists and engineers from around the globe this will be an essential reference volume for architecture and urban design students and scholars as well as those in related fields interested in the implications various facets and futures of smart design

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