



THERMALLY ACTIVE SURFACES IN ARCHITECTURE

Kiel Moe

Thermally Active Surfaces In Architecture

Syngellakis, S., Miralles i Garcia, J. L.



Thermally Active Surfaces In Architecture:

Thermally Active Surfaces in Architecture Kiel Moe, 2010-03-15 Departing from the simple question Why do we heat and cool buildings with air this book focuses on the technique of thermally active surfaces This technique uses water in building surfaces to heat and cool bodies a method that is at once more efficient comfortable and healthy This technique thus imbues the fabric of the building with a more poignant role its structure is also its primary heating and cooling system In doing so this approach triggers a cascading set of possibilities for how well buildings are built how well they perform and how long they will last pointing the way toward multiple forms of sustainability The first section of the book contrasts the parallel histories of thermally active surfaces and air conditioning These histories explain the material social marketing and technical unfolding of building technology in the twentieth century as a means to explain why we build the way we do and why that will change in the new century The next section of the book covers the physiological and thermodynamic basis of thermally active surfaces This section is designed for engineers and architects to grasp the logic and advantages of this technique This section also includes a chapter on the de fragmentation of buildings and design practice that is inherent in building with thermally active surfaces The final section covers a series of contemporary case studies that demonstrate the efficacy of this technique The project list currently includes Kunsthaus in Bregenz by Peter Zumthor Zollverein School of Management in Essen Germany by SANAA and Linked Hybrid in Beijing by Steven Holl amongst others **Integrated**

Design in Contemporary Architecture Kiel Moe, 2008-06-19 The author takes a comprehensive look at projects that exemplify approaches to this field From museums to residences from office buildings to universities and yoga centers this book showcases 28 examples of integrated design that cut across building types budgets climates and locales **Matter:**

Material Processes in Architectural Production Gail Peter Borden, Michael Meredith, 2012-03-29 Beginning with material this book revolves around physical material making and design decisions that emerge from material interaction Combining essays from both practice and academia this book presents some of the most significant projects and thoughts on materiality from the last decade Beautifully illustrated with a great deal of technical information throughout it shows work technical technique and process and positions it within a broader theoretical intention By assembling a range of voices here is a multifaceted portrait of material design today Students and design professionals alike should find in this book an essential resource for understanding this increasingly important aspect of design **Urban Agriculture and City Sustainability**

Syngellakis, S., Miralles i Garcia, J. L., 2019-09-18 Papers presented at the 1st International Conference on Urban Agriculture and City Sustainability are contained in this book The research reviews ways in which urban agriculture can contribute to achieve sustainable cities and considers ways of reducing the impact in terms of use of natural resources waste production and climate change **Inside OUT** Elizabeth McCormick, 2024-03-14 Inside OUT Human Health and the Air Conditioning

Era focuses on the enclosed environment of fully conditioned buildings revealing a unique ecosystem with broad implications

for human life and a rapidly expanding global footprint Emphasizing the interconnections between buildings and human health equity and environmental sustainability it presents an interdisciplinary holistic analysis of the social behavioral and technological issues of indoor space Over the 20th century advances in mechanical conditioning technologies led to the dispersion and international dominance of the sealed building envelope which casually and progressively disconnected buildings and their occupants from local climatic biological and cultural environments At the same time humans were increasingly pushed indoors by less tangible socially constructed forces that associated climate control with cleanliness health social status and modernization In this volume a multi disciplinary group of experts on the indoor microbiome from the fields of biology anthropology and architecture come together to thoughtfully reflect on the history properties and meaning of indoor air quality in buildings and to discuss the future of human habitation with a dominant focus on human health in a post pandemic world Taking a human first approach to health and sustainability the authors weave together a compelling analysis of social and technological drivers of conditioned space with arguments for future interventions in the built environment Amid growing awareness of air quality and climate concerns Inside OUT provides a timely discussion of the relationship between building design and human health of relevance to professional and academic readers from across the spectrum of the building industry as well as fields including public health and environmental studies

Modelling

Behaviour Mette Ramsgaard Thomsen, Martin Tamke, Christoph Gengnagel, Billie Faircloth, Fabian Scheurer, 2015-11-12 This book reflects and expands on the current trend in the building industry to understand simulate and ultimately design buildings by taking into consideration the interlinked elements and forces that act on them This approach overcomes the traditional exclusive focus on building tasks while posing new challenges in all areas of the industry from material and structural to the urban scale Contributions from invited experts papers and case studies provide the reader with a comprehensive overview of the field as well as perspectives from related disciplines such as computer science The chapter authors were invited speakers at the 5th Symposium Modelling Behaviour which took place at the CITA in Copenhagen in September 2015

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 **Precedented Environmental Futures** Colin

Porteous,2019-04-17 This book addresses the built environment through the lens of environmental architecture and in a holistic manner It moves gradually from psychophysiology and thinking doing feeling modalities through environmental criteria to environmental modulation concluding with a debate around mitigation and adaptation Much use is made of re interpreting past quotations seen as relevant for environmental architecture No definitive conclusions are reached but rather broad discursive messages are offered The text will have lasting luminance for new generations involved with the built environment New Directions in Sustainable Design Adrian Parr,Michael Zaretsky,2010-10-09 This book brings together

new and emerging perspectives on sustainability Combining a series of well know authors in contemporary philosophy with established practitioners of sustainable design it develops a coherent theoretical framework for how a philosophy of sustainability might engage with the growing practice of sustainable design The Long 2020 Richard Grusin, Maureen Ryan,2023-01-24 Sharply intelligent often personal reflections on the global crises of 2020 that are still ongoing By all accounts 2020 was the longest year in recent memory as people in the United States and across the globe careened from one unfolding catastrophe to another The consequences of this devastating year are sure to impact the planet for decades if not centuries to come This collection considers the question of that long 2020 from the perspective of the lived experience of the year its long and deep roots in various human and nonhuman pasts and the transformation of our sense of the future The Long 2020 assembles a strikingly interdisciplinary group of scholars and thinkers to address how the many crises of 2020 epidemiological political ecological and social have unfolded examining both their origins as well as their ongoing effects The contributors address questions of time history and scale as they have played out and continue to play out the relationship between home and environment with a focus on architecture breathing and human nonhuman relations and the experience of cultural political and social life deploying cultural and political theory to explore questions of race gender and sexuality and democracy The global pandemic has still not abated reflecting the need to rethink our interrelatedness to viruses and other species In bringing together this diverse group of authors The Long 2020 offers a variety of perspectives on the impacts of that fraught year the effects of which continue to permeate daily life Contributors Stacy Alaimo U of Oregon Elisabeth Anker George Washington U Janelle Baker Athabasca U Alberta Canada Daniel A Barber U of Pennsylvania Weitzman School of Design Adia Benton Northwestern U Levi R Bryant Collin College Beatriz Colomina Princeton U William E Connolly Johns Hopkins U Cary Gabriel Costello U of Wisconsin Milwaukee Megan Craig Stony Brook U Wai Chee Dimock Harvard U Paulla Ebron Stanford U Nirmala Erevelles U of Alabama Roderick A Ferguson Yale U Rosa E Ficek U of Puerto Rico at Cayey Stefanie Fishel U of the Sunshine Coast in Queensland Jonathan Flatley Wayne State U Jennifer Gabrys U of Cambridge David Gissen Parsons School of Design and the New School New York Dehlia Hannah The Royal Danish Academy of Fine Arts

Karen Ho U of Minnesota Bonnie Honig Brown U Fr d ric Keck Laboratory of Social Anthropology CNRS Paris Eben Kirksey Deakin Institute in Melbourne Australia Bernard C Perley U of British Columbia Vancouver Tom Rademacher Renya Ramirez U of California Santa Cruz Zoe Todd M tis Anna Tsing U of California Santa Cruz Sarah E Vaughn U of California Berkeley Rebecca Wanzo Washington U McKenzie Wark Eugene Lang College New York City

Translucent Building Skins Scott Murray, 2013-05-07 Exploring the design of innovative building enclosure systems or skins in contemporary architecture and their precedents in earlier twentieth century modern architecture this book examines the tectonics the history and the influence of translucency as a defining characteristic in architecture Highly illustrated throughout with drawings and full colour photographs the book shows that translucency has been and continues to be a fertile ground for architectural experimentation Each chapter presents a comparative analysis of two primary buildings a recent project paired with a historical precedent highlighting how architects in different eras have realized the distinctive effects of translucency The included buildings span a variety of program types ranging from a single family residence to a factory to a synagogue Whether it is Pierre Chareau s glass lens curtain wall at the Maison de Verre Frank Lloyd Wright s wall of stacked glass tubes at the Johnson Wax Research Tower or Peter Zumthor s use of acid etched glass in a double skin envelope at the Kunsthau s Bregenz the included projects each offer an exemplary case study of innovations in materiality and fabrication techniques Today among many contemporary architects there is an engagement with new technologies new material assemblies and new priorities such as sustainability and energy efficiency A resurgent interest in translucency as a defining quality in buildings has been an important part of this recent dialogue and this book makes essential reading for any architect looking to incorporate aspects of translucency into their buildings

Thermodynamic Interactions Javier Garcia-German, 2017-07-01 An Exploration into Material Physiological and Territorial Atmospheres Energy and sustainability is a complex topic that needs to address simultaneously core disciplinary values and ideas that come from other fields of knowledge The interconnection between the environment and its climate its built structures and the human body requires overlying architecture with other disciplines such as meteorology thermodynamics or physiology to engage them in a holistic way The book is structured in three blocks Territorial Atmospheres Material Atmospheres and Physiological Atmospheres which present three distinct and successive realms at which thermodynamic exchanges are taking place Territorial Atmospheres deals with the thermodynamic interaction between the environment and its built structures Material Atmospheres focuses on the interaction between a building and the climate it generates And lastly Physiological Atmospheres centers on the interaction between indoor ambient and the physiologi cal and psychological effects on human beings Each of the blocks has a coeditor Silvia Benedito for Territorial Atmospheres I aki balos for Material Atmospheres and Philippe Rahm for Physiological Atmospheres who will work together with the editor defining the context of the book

Convergence: An Architectural Agenda for Energy Kiel Moe, 2013-07-31 Convergence is based on the thermodynamic premise that

architecture should maximize its ecological and architectural power No matter how paradoxical it might initially seem architects should maximize energy intake maximize energy use and maximize energy feedback and reinforcement This presumes that the necessary excess of architecture is in fact an architect's greatest asset when it comes to an agenda for energy not a liability But how do we start to understand the full range of eco thermodynamic principles which need to be engaged with in order to achieve this Kiel Moe explicates three factors materials energy systems and amortization When these three factors converge through design the resulting buildings begin to perform in complex if not subtle ways By drawing on a range of architectural thermodynamic and ecological sources as well as illustrated and well designed case studies the author shows what architecture stands to gain by simultaneously maximizing the architectural and ecological power of buildings

Ceilings and Dreams Paul Emmons, Federica Goffi, Jodi La Coe, 2019-07-08 Where is the space for dreaming in the twenty first century Lofty thoughts like dreams are born and live overhead just as they have been represented in Renaissance paintings and modern cartoons Ceilings are often repositories of stories events and otherwise invisible oneiric narratives Yet environments that inspire innovative thinking are dwindling as our world confronts enormous challenges and almost all of our thinking debating and decision making takes place under endless ceiling grids Quantitative research establishes that spaces with taller ceilings elicit broader more creative thoughts Today ceilings are usually squat conduits of technology they have become the blind spot of modern architecture The twenty essays in this book look across cultures places and ceilings over time to discover their potential to uplift the human spirit Not just one building element among many the ceiling is a key to unlock the architectural imagination Ceilings and Dreams aims to correct this blind spot and encourages architects and designers researchers and students to look up through writings organized into three expansive categories reveries suspensions and inversions The contributors contemplate the architecture of levity and the potential of the ceiling once again as a place for dreaming

Insulating Modernism Kiel Moe, 2014-08-20 What is the best way to consider energy in buildings For over a century the building industry has largely focused on ideas of insulation and isolation for its energetic practices A growing movement of designers claim that other concepts and practices are required for the non isolated energy systems of architecture This book describes the history theory and facts of the mainstream isolation technologies and the emerging alternative design approaches It is a book on the scientific material and design history of building isolation but more importantly it is a book on isolated and non isolated perspectives on energy in architecture Written by a registered practicing architect with detailed technical knowledge who is at the same time a researcher and experienced teacher the aim is to understand the different scientific architectural and cultural approaches to energy and to promote a non isolated perspective a thermodynamically accurate ecologically powerful culturally relevant and architecturally ambitious perspective on energy in architecture

People, Planet, Design Corey Squire, 2023-11-14 If you were asked to close your eyes and envision where you are happiest would you picture somewhere inside a building North

Americans are inside buildings for more than 90% of the day Meanwhile the indoors are stifling us sometimes even killing us Buildings and the materials that make them up expose us to materials linked to negative health impacts The construction and operation of buildings is responsible for 40% of climate changing carbon emissions In the US the design choices made by the typical architecture firm employee each year can reduce emissions by about 300 times that of an average American But the promise of sustainable architecture will not be realized if sustainability remains a secondary consideration for architects What if great design were defined by its ability to cool the planet heal communities enhance ecological functioning and advance justice In People Planet Design architect Corey Squire builds the case provides the data and lays out the practical tools for a transformative human centered architecture This approach integrates beauty and delight with an awareness of how every design choice impacts the community the planet and the people who will use the building Outcome focused with a deep dive into practical design strategies the book showcases ten building systems that embody design excellence Squire centers the idea that by focusing on the desired outcomes that buildings shelter us from the elements without disconnecting us from the world that buildings provide the quality of air light and views we now know to be essential to health productivity and joy we can move beyond the checklist mentality that has captured much of the design community Essential reading for architects who want to transform what the profession means People Planet Design pioneers a new vision and sets readers up with clear guidance on implementing it Only when design prioritizes people as it should can architecture realize its full potential

Contemporary Art About Architecture Nora Wendl, 2017-07-05 An important resource for scholars of contemporary art and architecture this volume considers contemporary art that takes architecture as its subject Concentrated on works made since 1990 Contemporary Art About Architecture A Strange Utility is the first to take up this topic in a sustained and explicit manner and the first to advance the idea that contemporary art functions as a form of architectural history theory and analysis Over the course of fourteen essays by both emerging and established scholars this volume examines a diverse group of artists in conjunction with the vernacular canonical and fantastical structures engaged by their work I Manglano Ovalle Matthew Barney Monika Sosnowska Pipa Nguyen duy and Paul Pfeiffer are among those considered as are the compelling questions of architecture s relationship to photography the evolving legacy of Mies van der Rohe the notion of an architectural unconscious and the provocative concepts of the unbuilt and the unbuildable Through a rigorous investigation of these issues Contemporary Art About Architecture calls attention to the fact that art is now a vital form of architectural discourse Indeed this phenomenon is both pervasive and in its individual incarnations compelling a reason to think again about the entangled histories of architecture and art

Low-tech Magazine 2012-2018 Kris De Decker, 2019-03-18 Low tech Magazine underscores the potential of past and often forgotten technologies and how they can inform sustainable energy practices Sometimes past technologies can be copied without any changes More often interesting possibilities arise when older technology is combined with new knowledge and new materials or when past concepts and

traditional knowledge are applied to modern technology Inspiration is also to be found in the so called developing world where resource constraints often lead to inventive low tech solutions

Polyelectrolytes with Defined Molecular Architecture I Manfred Schmidt, 2004-01-13 Praise for Ed M Schmidt s Polyelectrolytes with Defined Molecular Architecture I POLYMERNEWS All articles are well prepared and structured Although not written as textbooks general introductions of the chapters provide basic knowledge of the separate fields methods and theoretical background Therefore the volumes can be recommended not only for specialists in the field The books make an important contribution to polyelectrolyte research and application I recommend the volumes to all scientists and engineers actively dealing with polyelectrolytes

How to Read Architecture Paulette Singley, 2019-06-26 How to Read Architecture is based on the fundamental premise that reading and interpreting architecture is something we already do and that close observation matters This book enhances this skill so that given an unfamiliar building you will have the tools to understand it and to be inspired by it Author Paulette Singley encourages you to misread closely read conventionally read and unconventionally read architecture to stimulate your creative process This book explores three essential ways to help you understand architecture reading a building from the outside in from the inside out and from the position of out and out or formal architecture This book erodes boundaries between the frequently compartmentalized fields of interior design landscape design and building design with chapters exploring concepts of terroir scenography criticality atmosphere tectonics inhabitation type form and enclosure Using examples and case studies that span a wide range of historical and global precedents Singley addresses the complex interaction among the ways a building engages its context addresses its performative exigencies and operates as an autonomous aesthetic object Including over 300 images this book is an essential read for both undergraduate and postgraduate students of architecture with a global focus on the interpretation of buildings in their context

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