

Engineered Transparency The Technical Visual And Spatial Effects Of Glass

Franca Trubiano

Engineered Transparency The Technical Visual And Spatial Effects Of Glass:

Engineered Transparency Michael Bell, Jeannie Kim, 2008-11-04 Glass is one of the most ubiquitous and extensively researched building materials Despite the critical role it has played inmodern architecture in the last century we have yet to fully comprehend the cultural and technological effects of this complex and sophisticated building material Engineered Transparency brings together an extraordinary multidisciplinary group of international architects engineers manufacturers and critics to collectively reconsider glasswithin the context of recent engineering and structural achievements In light of these advancements glass hasreemerged as a novel architectural material offering new and previously unimaginable modes of visual pleasure and spatial experience Engineered Transparency presents a portfolio of projects featuring cutting edge glass designs by todays most innovative architects including SANAA's acclaimed Glass Pavilion at the Toledo Museum of Art Yoshio Taniguchi s MoMA expansion in New York City and Steven Holl s Nelson Atkins Museum in Kansas City With contributions by foremost thinkers in the field of architecture and design including historians Kenneth Frampton Antoine Picon and DetlefMertins cultural critics Beatriz Colomina Joan Ockman and Reinhold Martin engineers Werner Sobek Guy Nordenson and Richard Tomasetti and architects Kazuyo Sejima Steve Holl and Elizabeth Diller Engineered Transparency redefines glass as a 21st century building material and challenges our assumptions about its aesthetic structural and spatial Engineered transparency ,2009 Blurred Transparencies in Contemporary Glass Architecture Aki potential Ishida, 2020-04-22 Blurred Transparencies in Contemporary Glass Architecture brings to light complex readings of transparent glass through close observations of six pivotal works of architecture Written from the perspectives of a practitioner the six essays challenge assumptions about fragility and visual transparency of glass A material imbued with idealism and utopic vision glass has captured architects imagination and glass s fragility and difficulties in thermal control continue to present technical challenges In recent decades architecture has witnessed an emergence of technological advancements in chemical coating structural engineering and fabrication methods that resulted in new kinds of glass transparencies Buildings examined in the book include a sanatorium with expansive windows delivering light and air to recovering tuberculosis patients a pavilion with a crystal clear glass plenum circulating air for heating and cooling a glass monument symbolizing the screen of personal devices that shortened the distance between machines and humans and a glass building symbolizing the social and material intertwining in the glass ceiling metaphor Connecting material glass to broader cultural and social contexts Blurred Transparencies in Contemporary Glass Architecture enlightens students and practitioners of architecture as well as the general public with interest in design The author demonstrates how glass is rarely crystal clear but is blurred both materially and metaphysically revealing complex readings of ideas for which glass continues to stand 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 Kunsthaus 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 Companion to Critical Approaches to Contemporary Architecture Swati Chattopadhyay, Jeremy White, 2019-08-01 The Routledge Companion to Critical Approaches to Contemporary Architecture convenes a wide array of critical voices from architecture art history urbanism geography anthropology media and performance studies computer science bio engineering environmental studies and sociology that help us understand the meaning and significance of global architecture of the twenty first century New chapters by 36 contributors illustrated with over 140 black and white images are assembled in six parts concerning both real and virtual spaces design materiality alterity technologies cityscapes and practice the Healing Glass John Stanislav Sadar, 2016-02-12 In the mid 1920s a physiologist a glass chemist and a zoo embarked on a project which promised to turn buildings into medical instruments The advanced chemistry of Vita Glass mobilised theories of light and medicine health practices and glassmaking technology to compress an entire epoch s hopes for a healthy life into a glass sheet yet it did so invisibly To communicate its advantage Pilkington Bros spared no expense as they launched the most costly and sophisticated marketing campaign in their history Engineering need for Vita Glass employed leading edge market research evocative photography and vanguard techniques of advertising psychology accompanied by the claim Let in the Health Rays of Daylight Permanently through Vita Glass Windows This is the story of how despite the best efforts of two glass companies the leading marketing firm of the day and the opinions of leading medical minds Vita Glass failed However it epitomised an age of lightness and airiness sleeping porches flat roofs and ribbon windows Moreover through its remarkable print advertising it strove to shape the ideal relationship between our buildings and our bodies The SAGE Handbook of Architectural Theory C. Greig Crysler, Stephen Cairns, Hilde Heynen, 2012-01-20 Offers an intense scholarly experience in its comprehensiveness its variety of voices and its formal organization the editors took a risk experimented and have delivered a

much needed resource that upends the status quo Architectural Histories journal of the European Architectural History Network Architectural theory interweaves interdisciplinary understandings with different practices intentions and ways of knowing This handbook provides a lucid and comprehensive introduction to this challenging and shifting terrain and will be of great interest to students academics and practitioners alike Professor Iain Borden UCL Bartlett School of Architecture In this collection architectural theory expands outward to interact with adjacent discourses such as sustainability conservation spatial practices virtual technologies and more We have in The Handbook of Architectural Theory an example of the extreme generosity of architectural theory It is a volume that designers and scholars of many stripes will welcome K Michael Hays Eliot Noves Professor of Architectural Theory Harvard University The SAGE Handbook of Architectural Theory documents and builds upon the most innovative developments in architectural theory over the last two decades Bringing into dialogue a range of geographically institutionally and historically competing positions it examines and explores parallel debates in related fields The book is divided into eight sections Power Difference Embodiment Aesthetics Pleasure Excess Nation World Spectacle History Memory Tradition Design Production Practice Science Technology Virtuality Nature Ecology Sustainability City Metropolis Territory Creating openings for future lines of inquiry and establishing the basis for new directions for education research and practice the book is organized around specific case studies to provide a critical interpretive and speculative enquiry into the relevant debates in architectural theory Diller Scofidio + Renfro Edward Dimendberg, 2013-03-20 In Diller Scofidio Renfro Architecture after Images Edward Dimendberg offers the first comprehensive treatment of one of the most imaginative contemporary design studios Since founding their practice in 1979 Elizabeth Diller and Ricardo Scofidio have integrated architecture urban design media art and the performing arts in a dazzling array of projects which include performances art installations and books in addition to buildings and public spaces At the center of this work is a fascination with vision and a commitment to questioning the certainty and security long associated with architecture Dimendberg provides an extensive overview of these concerns and the history of the studio revealing how principals Elizabeth Diller Ricardo Scofidio and Charles Renfro continue to expand the definition of architecture question the nature of space and vision in contemporary culture and produce work that is endlessly surprising and rewarding from New York s High Line to Blur an artificial cloud and Facsimile a video screen that moves around a building facade Dimendberg also explores the relation of work by DS R to that by earlier modernists such as Marcel Duchamp and John Hejduk He reveals how the fascination of the architects with evolving forms of media technology and building materials has produced works that unsettle distinctions among architecture and other media Based on interviews with the architects their clients and collaborators as well as unprecedented access to unpublished documents sketchbook entries and archival records Diller Scofidio Renfro is the most thorough consideration of DS R in any language Illustrated with many previously unpublished renderings in addition to photos from significant contemporary photographers this book is

an essential study of one of the most significant and creative architecture and design studios working today Structural Glass Facades and Enclosures Mic Patterson, 2011-04-12 A COMPREHENSIVE GUIDE TO STRUCTURAL GLASS FACADES FOR ARCHITECTS ENGINEERS AND BUILDERS Once an experimental building form structural glass facades have matured into a fully robust technology Structural Glass Facades and Enclosures documents defines and categorizes the current state of the art in long span glass facade design and construction with a focus on structural systems glass cladding options and implementation strategies for innovative design A comparative analysis of these various systems is included along with designs and design practices for enhancing transparency engineering issues material process and fabrication considerations installation means and methods and project delivery strategies for implementing innovative building technology in today s construction marketplace The reader will find information here that is not available together in any single resource including Structural system types and design options with integrated glass system options and their application on each of the structural types An in depth discussion of design fabrication and installation issues relative to each system type accompanied by illustrations and photographs A discussion of the challenges of implementing innovative design and technology in the construction industry and operational practices to improve the probability of success A series of in depth case studies documenting representative samples of stunning built works that employ the technology and design principles identified in the book Structural Glass Facades and Enclosures provides expert content for putting cutting edge technology into real life practice creating new potential for fresh applications embracing both aesthetic and performance solutions and for the adoption of the technology by architects builders and facade practitioners **Design and Construction of High-Performance Homes** Franca Trubiano, 2013-03-05 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

Reading Architecture and Culture Adam Sharr, 2012 Introducing the notion of appreciating buildings as cultural artefacts this book presents insightful readings by eminent writers which show the power of this approach Reading architecture in this way can help architects to appreciate the contexts in which they operate when they design This book introduces outlines and elaborates on this and opens up powerful insights for historians critics and students **Engineered Transparency 2021** Bernhard Weller, Jens Schneider, 2021-07-06 This book contains more than 70 articles and presents international trends in structural glazing and facade construction Renowned authors from all over the world report on current research results and innovative construction projects Kafka's Architectures Ayad B. Rahmani, 2015-01-02 Adopting Kafka as a lens to examine modern concepts in architecture this book pries open new interpretations in Kafka scholarship Each of eight chapters takes up an architectural element with which to explore meanings central to both literature and architecture Stairs function as vertical access but in Kafka's hands become an instrument of science testing the merit of natural selection Kafka s doors open and close less to allow passage than to reconcile one psychological interior with the next Notions of plumbing and hygiene begin to acquire new meaning The architecture of Mies van der Rohe begins to make more sense especially his tabula rasa approach to design signifying less a harsh disdain for site and more a response to a reality in which the ceremony of the stairs had died and was replaced by the pervasive flatness of the modern floor *Configurations of the architectural* Innovative Design and Construction Stefan Behling, Christian Brensing, Andreas Fuchs, Christoph envelope, Ingenhoven, 2013-01-07 How is innovative architecture created How can efficient synergies between planners and manufacturers be achieved And how does an enterprise such as seele with its proven high level qualifications in the area of steel and glass respond to planners design ideas These are just some of the questions answered in Innovative Design Construction the new publication in the DETAILdevelopment series Using prestigious international projects as examples the book explains the working philosophy and approach of the seele company which stands for innovation in construction and customised solutions using the materials of glass steel aluminium and membranes like few other companies Maintenance Architecture Hilary Sample, 2016-12-02 An inventive examination of a crucial but neglected aspect of architecture by an architect writing to architects Maintenance plays a crucial role in the production and endurance of architecture yet architects for the most part treat maintenance with indifference The discipline of architecture values the image of the new over the lived in the photogenic empty and stark building over a messy and labored one But the fact is homes need to be cleaned and buildings and cities need to be maintained and architecture no matter its form cannot escape from such realities In Maintenance Architecture Hilary Sample offers an inventive examination of the architectural significance of maintenance through a series of short texts and images about specific buildings materials and projects Although architects have seldom choose to represent maintenance imagining their work only from conception to realization artists have long explored subjects of endurance and permanence in iconic architecture Sample explores a range of art projects by artists including Gordon

Matta Clark Jeff Wall and Mierle Laderman Ukeles to recast the problem of maintenance for architecture How might architectural design and discourse change as a building cycle expands to include post occupancy Sample looks particularly at the private home exhibition pavilion and high rise urban building giving special attention to buildings constructed with novel and developing materials technologies and precise detailing in relation to endurance These include Buckminster Fuller's Dymaxion House 1929 the Lever House 1952 the U S Steel Building 1971 and the O 14 2010 She considers the iconography of skyscrapers maintenance workforces both public and private labor saving technology and devices and contemporary architectural projects and preservation techniques that encompass the afterlife of buildings A selection of artworks make the usually invisible aspects of maintenance visible from Martha Rosler's Cleaning the Drapes to Inigo Manglano Ovalle's The **Metamorphism** Ákos Moravánszky, 2017-11-20 Materiality is a recurring and central issue in architecture This book Kiss explains how materials are constructed how they become cultural substances Metamorphism investigates the complex relationship between natural materials and technology science and sensuality Gottfried Semper 1803 1879 made the notion of Stoffwechsel the key element of his theory With this concept he intended to explain how a structural form originally bound to a method of processing is transferred from one material to another liberated from its original function For the first time the book investigates the subject from a historic point of view whilst reflecting on current interdisciplinary research Examples from Aalto to Zumthor illustrate the specific aspects of historic and contemporary material concepts Modern **Architecture and Climate** Daniel A. Barber, 2023-04-11 How climate influenced the design strategies of modernist architects Modern Architecture and Climate explores how leading architects of the twentieth century incorporated climate mediating strategies into their designs and shows how regional approaches to climate adaptability were essential to the development of modern architecture Focusing on the period surrounding World War II before fossil fuel powered air conditioning became widely available Daniel Barber brings to light a vibrant and dynamic architectural discussion involving design materials and shading systems as means of interior climate control He looks at projects by well known architects such as Richard Neutra Le Corbusier L cio Costa Mies van der Rohe and Skidmore Owings and Merrill and the work of climate focused architects such as MMM Roberto Olgyay and Olgyay and Cliff May Drawing on the editorial projects of James Marston Fitch Elizabeth Gordon and others he demonstrates how images and diagrams produced by architects helped conceptualize climate knowledge alongside the work of meteorologists physicists engineers and social scientists Barber describes how this novel type of environmental media catalyzed new ways of thinking about climate and architectural design Extensively illustrated with archival material Modern Architecture and Climate provides global perspectives on modern architecture and its evolving relationship with a changing climate showcasing designs from Latin America Europe the United States the Middle East and Africa This timely and important book reconciles the cultural dynamism of architecture with the material realities of ever increasing carbon emissions from the mechanical cooling systems of buildings and offers a historical

foundation for today s zero carbon design The Materiality of Architecture Antoine Picon, 2021-01-26 A new paradigm combining architectural tradition with emerging technologies Digital tools have launched architecture into a dizzying new era one in which wood stone metal glass and other traditional materials are augmented by pixels and code In this ambitious exploration an eminent thinker examines what exactly the building blocks of architecture have meant over the centuries and how technology may or may not be changing how we think about them Antoine Picon argues that materiality is not only about matter and that the silence and inscrutability the otherness of raw materials work against humanity s need to live in a meaningful world He describes how people define who they are in part through their specific physical experience of architectural materials and spaces Indeed Picon asserts the entire paradox of the architectural discipline consists in its desire to render matter expressive to human beings Through a retrospective review of canonical moments in Western European architecture Picon offers an original perspective on the ways materiality has varied throughout centuries demonstrating how experiences of the physical world have changed in relation to the evolution of human subjectivity Ultimately Picon concludes that computer based design methods are not an abrupt departure from previous architectural traditions but rather a new way for architects to control material resources. The result reinforces the fundamentally humanistic nature of architectural endeavor with an increasing sense of design freedom and a release from material constraint in the digital era The Evolution of Computation in Architecture Michael Fox, Bradley Bell, 2024-10-31 This book is the first comprehensive overview of the pioneering works events and people that contributed to the paradigm shift defined by computation in architecture Only recently has computation fostered profound new ways of designing fabricating constructing and thinking about architecture While the profession sits at the end of the beginning of this historically transformative shift it is now possible to look back upon the rapidly maturing landscape of projects influencers and tools that have finally begun to catch up with the visionary thinking of the past Readers are guided through the fascinating and fast paced historical timeline of the development of computation in architecture Beginning with an account of the pioneering futuristic thinkers the authors then guide the reader through the birth of computation the appropriation of tools and the impact of experimentation on the profession leading into the legitimacy of research and how paradigms have been expanded The examples and influences are presented in a way that they can be understood and built upon This book is a must read for students of computation in architecture as well as researchers and practicing architects thinking about how the tools we use and the ways we design our buildings and environments with them can truly impact our lives

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