

# Engineered Transparency The Technical Visual And Spatial Effects Of Glass

Metamorphism  
 Maintenance Architecture  
 10th International Conference, EPCE 2013, Held as Part of HCI International 2013, Las Vegas, NV, USA, July 21-26, 2013, Proceedings, Part I  
 From Representation to Reality  
 Architecture after Images  
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## MICHAEL SILAS

*Metamorphism* Oxford University Press  
 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 Based on interviews with the architects, their clients, and collaborators as well as unprecedented access to unpublished documents, sketchbook entries, and archival records, Diller Scofidio + Renfro is the most thorough consideration of DS+R in any language. Illustrated with many previously unpublished renderings in addition to photos from significant contemporary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.

Maintenance Architecture CRC Press

This book constitutes the refereed proceedings of the 18th International Working Conference on Requirements Engineering: Foundation for Software Quality, REFSQ 2012, held in Essen, Germany, in March 2012. The papers are organized in 10 topical sections on contractual requirements, quality requirements, collaboration, complexity and creativity, requirements analysis, templates and heuristics, requirements traceability, tools and quality, services and clouds, self-adaptivity, and industrial case studies,

10th International Conference, EPCE 2013, Held as Part of HCI International 2013, Las Vegas, NV, USA, July 21-26, 2013, Proceedings, Part I Routledge

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 to explore meanings central to both literature and architecture during and after Kafka's time. 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 the alchemy between one psychological interior and the next. Notions of plumbing and hygiene, already part and parcel of modern living, 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.

From Representation to Reality Springer

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.

Architecture after Images Walter de

Gruyter

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.

Routledge

"Engineered Transparency" presents a portfolio of projects featuring cutting-edge glass designs by today's 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 Detlef Mertins; cultural critics Beatriz Colomina, Joan Ockman, and Reinhold Martin; engineers Werner Sobek, Guy Nordenson, and Richard Tomasetti; and architects Kazuyo Sejima, Steven Holl, and Elizabeth Diller, Engineered Transparency redefines glass as a twenty-first-century building material and challenges our assumptions about its aesthetic, structural, and spatial potential.

Shaping the Modern Body through Glass Architecture, 1925-35 Springer  
This two-volume set (LNAI 8019 and LNAI 8020) constitutes the refereed proceedings of the 10th International Conference on Engineering Psychology and Cognitive Ergonomics, EPCE 2013, held as part of the 15th International Conference on Human-Computer Interaction, HCI 2013, held in Las Vegas, USA in July 2013, jointly with 12 other

thematically similar conferences. The total of 1666 papers and 303 posters presented at the HCI 2013 conferences was carefully reviewed and selected from 5210 submissions. These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems. The papers accepted for presentation thoroughly cover the entire field of human-computer interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. The total of 81 contributions included in the EPCE proceedings were carefully reviewed and selected for inclusion in this two-volume set. The papers included in this volume are organized in the following topical sections: cognitive issues in HCI; measuring and monitoring cognition; cognitive issues in complex environments; productivity, creativity, learning and collaboration.

Agile Software Engineering with Visual Studio Addison-Wesley Professional

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 Mangano-Ovalle's *The Kiss*.

*17th International SDL Forum, Berlin, Germany, October 12-14, 2015, Proceedings* Engineered Transparency The Technical, Visual, and Spatial Effects of Glass

This book considers key ethical questions in museum policy and practice, particularly those related to issues of collection and display. What does a collection signify in the twenty-first century museum? How does an engagement with immateriality challenge museums' concept of ownership, and how does that immateriality translate into the design of exhibitions and museum space? Are museums still about safeguarding objects, and what does safeguarding mean for diverse individuals and communities today? How does the notion of the museum as a performative space challenge our perceptions of the object? The scholarship represented in this volume is a testament to the range and significance of critical inquiry in museum ethics. Together, the chapters resist a legalistic interpretation, bound by codes and common practice, to advance an ethics discourse that is richly theorized, constantly changing and contingent on diverse external factors. Contributors take stock of innovative research to articulate a new museum ethics founded on the moral agency of museums, the concept that museums have both the capacity and the responsibility to create social change. This book is based on a special issue of *Museum Management and Curatorship*. *Bibliography of Research Reports and Publications Issued by the Human Engineering Division, April 1946-December 1970* Alinea Editrice

The International Conference on Civil, Architectural and Hydraulic Engineering series provides a forum for exchange of ideas and enhancing mutual understanding between scientists, engineers, policymakers and experts in these engineering fields. This book contains peer-reviewed contributions from many experts representing industry and academic es

*Glass in Architecture and Structural*

*Engineering* Princeton Architectural Press This book constitutes the proceedings of the 17th International System Design Language Forum, SDL 2015, held in Berlin, Germany, in October 2015. The 15 full papers and 4 short papers presented in this volume were carefully reviewed and selected from 26 submissions. They are organized in topical sections named: smart cities and distributed systems; specification and description language; domain specific languages; goal modeling; use-case modeling; and model-based testing.

**The British National Bibliography** Routledge

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. **Structural Glass Facades and Enclosures** John Wiley & Sons Architecture displays the values involved in its inhabitation, construction, procurement and design. It traces the thinking of the individuals who have participated in it, their relationships, and

their involvement in the cultures where they lived and worked. In this way, buildings, their details, and the documents used to make them, can be read closely for cultural insights. Introducing the idea of reading buildings as cultural artefacts, this book presents perceptive readings by eminent writers which demonstrate the power of this approach. The chapters show that close readings of architecture and its materials can test commonplace assumptions, help architects to appreciate the contexts in which they work, and indicate ways to think more astutely about design. The readings collected in this innovative and accessible book address buildings, specifications and photographs. They range in time from the fifteenth century – examining the only surviving drawing made by Leon Battista Alberti – to the recent past – projects completed by Norman Foster in 2006 and Herzog and De Meuron in 2008. They range geographically from France to Puerto Rico to Kazakhstan and they range in fame from buildings celebrated by critics to house extensions and motorway service areas. Taken together, these essays demonstrate important research methods which yield powerful insights for designers, critics and historians, and lessons for students.

*Glass in Building* CRC Press

The bibliography contains the titles, authors and publication/source information for the technical reports and articles published by the Human Engineering Division of the Aerospace Medical Research Laboratory between April 1946 and December 1970. The bibliography is divided into 16 technical areas: Guides and handbooks applicable to system development; Physical anthropology; Apparatus; Control design and arrangement; Environmental stress, vigilance, and work/rest cycles; Human engineering applications, descriptions, and evaluations; Maintenance; Methodology and statistics; Personnel and manning requirements; Presentation and information; Simulation techniques; Systems research; Tracking and servo analysis; Training and learning; Zero-G studies; Miscellaneous. (Author).

**Material Innovations in Modern and Contemporary Architecture** Routledge

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

Birkhäuser

This book constitutes the refereed proceedings of the 11th International Conference on Engineering Psychology and Cognitive Ergonomics, EPCE 2014, held as part of the 16th International Conference on Human-Computer Interaction, HCII 2014, held in Heraklion, Greece, in June 2014, jointly with 13 other thematically similar conferences. The total of 1476 papers and 220 posters presented at the HCII 2014 conferences were carefully reviewed and selected from 4766 submissions. These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems. The papers accepted for presentation thoroughly cover the entire field of human-computer interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. The total of 54 contributions included in the EPCE proceedings were carefully reviewed and selected for inclusion in this volume and are organized in the following topical sections: mental workload and stress; visual perception; cognitive issues in interaction and user experience; cognitive psychology in aviation and space; transport and industrial applications. *18th International Working Conference, REFSQ 2012, Essen, Germany, March*

*2012, Proceedings Springer*

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, Lúcio 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 Routledge Companion to Critical Approaches to Contemporary**

**Architecture** Princeton University Press

A complete lexicon of technical information, the *Dictionary of Computer Science, Engineering, and Technology* provides workable definitions, practical information, and enhances general computer science and engineering literacy. It spans various disciplines and industry sectors such as: telecommunications, information theory, and software and hardware systems. If you work with, or write about computers, this dictionary is the single most important resource you can put on your shelf. The dictionary addresses all aspects of computing and computer technology from

multiple perspectives, including the academic, applied, and professional vantage points. Including more than 8,000 terms, it covers all major topics from artificial intelligence to programming languages, from software engineering to operating systems, and from database management to privacy issues. The definitions provided are detailed rather than concise. Written by an international team of over 80 contributors, this is the most comprehensive and easy-to-read reference of its kind. If you need to know the definition of anything related to computers you will find it in the *Dictionary of Computer Science, Engineering, and Technology*.

#### Systems Engineering and Artificial Intelligence Springer

Medical devices are often very complex, but while there are differences in design from one manufacturer to another, the principles of operation and, more importantly, the physiological and anatomical characteristics on which they operate are universal. *Introduction to Biomedical Engineering Technology, Second Edition* explains the uses and applications of medical technology and the principles of medical equipment management to familiarize readers with their prospective work environment. Written by an experienced biomedical engineering technologist, the book describes the technological devices, various hardware, tools, and test equipment used in today's health-care arena. Photographs of representative equipment; the technical, physiological, and anatomical basis for their function; and where they are commonly found in hospitals are detailed for a wide range of biomedical devices, from defibrillators to electrosurgery units. Throughout, the text incorporates real-life examples of the work that biomedical engineering technologists do. Appendices supply useful information such as normal medical values, a list of regulatory bodies, Internet resources, and information on training programs. Thoroughly revised and updated, this second edition includes more examples and illustrations as well as end-of-chapter questions to test readers' understanding. This accessible text supplies an essential overview of clinical equipment and the devices that are used directly with patients in the course of their care for diagnostic or treatment purposes. The author's practical approach and organization, outlining everyday functions and applications of the various medical devices, prepares readers for situations they will encounter on the job. **What's New in This Edition:** Revised and updated

throughout, including a wider range of devices, full-color anatomy illustrations, and more information about test equipment New, integrated end-of-chapter questions More real-life examples of Biomedical Engineering Technologist (BMET) work, including the adventures of "Joe Biomed" and his colleagues New appendices with information about normal

medical values, regulatory bodies, educational programs in the United States and Canada, international BMET associations, Internet resources, and lists of test equipment manufacturers More illustrations  
**Modern Architecture and Solar Energy in the Cold War** Routledge  
 This proceedings volume brings together

some 189 peer-reviewed papers presented at the International Conference on Information Technology and Computer Application Engineering, held 27-28 August 2013, in Hong Kong, China. Specific topics under consideration include Control, Robotics, and Automation, Information Technology, Intelligent Computing and

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