

# Grounds and Envelopes

Reshaping Architecture and  
the Built Environment

Michael U. Hensel and Jeffrey P. Turko



# Grounds And Envelopes Reshaping Architecture And The Built Environment

**Michael Hensel**



## **Grounds And Envelopes Reshaping Architecture And The Built Environment:**

**Grounds and Envelopes** Michael U. Hensel, Jeffrey P. Turko, 2015-05-22 Providing a source of vision for the revitalisation of ground and envelope as spatial elements that can inform the search for embedded locally specific architectures this book collects essays and projects that each contributes a particular element to what might constitute an integrated and richly nuanced approach to spatial organisation Projects include Paulo Mendes da Rocha Brazilian Pavilion Osaka World Expo 1970 Osaka Japan RCR Architectes Marquee at Les Cols Restaurant Olot Girona Spain Weiss Manfredi Seattle Art Museum Olympic Sculpture Park Seattle Washington USA Peter Eisenman City of Culture of Galicia Santiago de Compostela Spain Plasma Studio and Groundlab Xi an Horticultural Expo Longgang China Foreign Office Architects Yokohama International Ferry Terminal Yokohama Japan Nekton Design Turf City Reykjavik Iceland Alvaro Siza Swimming Pool Le a da Palmeira Portugal Eduardo Souto de Moura Braga Municipal Stadium Braga Portugal MVRDV Villa VPRO Hilversum Netherlands Bernard Tschumi Le Fresnoy Art Centre Tourcoing France OCEAN World Centre for Human Concerns New York City USA R Spidernethewood N mes France Toyo Ito Serpentine Pavilion London England Enric Miralles and Carme Pin s Olympic Archery Range Barcelona Spain Kengo Kuma GC Prostho Museum Research Centre Aichi Prefecture Japan Cloud 9 MediaTic Barcelona Spain Diller Scofidio and Renfro Blur Building Yverdon les Bains Switzerland Swiss National Expo With an abundance of built and un built key projects available it is now possible to outline the contours of a new discourse This book initiates a new beginning in this direction so that architecture can partake in the creation of heterogeneous space and culturally socially and environmentally sustainable built environments Grounds and Envelopes Michael U. Hensel, Jeffrey P. Turko, 2015-05-22 Providing a source of vision for the revitalisation of ground and envelope as spatial elements that can inform the search for embedded locally specific architectures this book collects essays and projects that each contributes a particular element to what might constitute an integrated and richly nuanced approach to spatial organisation Projects include Paulo Mendes da Rocha Brazilian Pavilion Osaka World Expo 1970 Osaka Japan RCR Architectes Marquee at Les Cols Restaurant Olot Girona Spain Weiss Manfredi Seattle Art Museum Olympic Sculpture Park Seattle Washington USA Peter Eisenman City of Culture of Galicia Santiago de Compostela Spain Plasma Studio and Groundlab Xi an Horticultural Expo Longgang China Foreign Office Architects Yokohama International Ferry Terminal Yokohama Japan Nekton Design Turf City Reykjavik Iceland Alvaro Siza Swimming Pool Le a da Palmeira Portugal Eduardo Souto de Moura Braga Municipal Stadium Braga Portugal MVRDV Villa VPRO Hilversum Netherlands Bernard Tschumi Le Fresnoy Art Centre Tourcoing France OCEAN World Centre for Human Concerns New York City USA R Spidernethewood N mes France Toyo Ito Serpentine Pavilion London England Enric Miralles and Carme Pin s Olympic Archery Range Barcelona Spain Kengo Kuma GC Prostho Museum Research Centre Aichi Prefecture Japan Cloud 9 MediaTic Barcelona Spain Diller Scofidio and Renfro Blur Building Yverdon les Bains Switzerland Swiss National Expo With an abundance of built and un built

key projects available it is now possible to outline the contours of a new discourse This book initiates a new beginning in this direction so that architecture can partake in the creation of heterogeneous space and culturally socially and environmentally sustainable built environments     Constructions Michael Hensel, Christian Hermansen Cordua, 2015-05-04 The current trend for constructing experimental structures is now an international phenomenon It has been taken up worldwide by design professionals researchers educators and students alike There exist however distinct and significant tendencies within this development that require further investigation This issue of AD takes on this task by examining one of the most promising trajectories in this area the rise of intensely local architectures In his seminal essay of 1983 Kenneth Frampton redefined Critical Regionalism by calling for an intensely local approach to architectural design Today Frampton's legacy is regaining relevance for a specific body of work in practice and education focused on the construction of experimental structures Could this ultimately provide the seeds for a compelling and alternative approach to sustainable design Contributors include Barbara Ascher Peter Buchanan Karl Otto Ellefsen David Jolly Monge Lisbet Harboe David Leatherbarrow Areti Markopoulou Philip Nobel Rodrigo Rubio Sren S Srensen Defne Sunguro lu Hensel Featured practices Renzo Piano Building Workshop Rintala Eggertsson SHoP Studio Mumbai TYIN tegnestue     **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     *Deep Skin Architecture* Timo Carl, 2019-04-25 Timo Carl presents alternatives to curtain wall facades and other flat boundaries creating autonomous spaces He investigates facade typologies with multiple material layers to strategize the relationship between buildings and their environment By revisiting Le Corbusier's seminal *brise soleil* an alternative reading of the modern project emerges one that is not based on classical compositional rules but instead on the dynamic relationships with environmental forces Finally an exciting series of project based investigations sets out innovative ways in which novel deep skins combine energy conscious performance with the poetics of architecture     **Performance-Oriented Architecture** Michael Hensel, 2013-05-20 Architecture is on the brink It is a discipline in crisis Over the last two decades architectural debate has diversified to the point of fragmentation and exhaustion What is called for is an overarching argument or set of criteria on which to approach the design and construction of the built environment Here the internationally renowned architect and

educator Michael Hensel advocates an entirely different way of thinking about architecture By favouring a new focus on performance he rejects longstanding conventions in design and the built environment This not only bridges the gap between academia and practice but even more significantly the treatment of form and function in design It also has a far reaching impact on knowledge production and development placing an important emphasis on design research in architecture and the value of an interdisciplinary approach Though performance first evolved as a concept in the humanities in the 1940s and 1950s it has never previously been systematically applied in architecture in an inclusive manner Here Michael Hensel offers Performance Orientated Architecture as an integrative approach to architectural design the built environment and questions of sustainability He highlights how core concepts and specific traits such as climate material performance and settlement patterns can put architecture in the service of the natural environment A wide range of examples are cited to support his argument from traditional sustainable buildings such as the Kahju Bridge in Isfahan and the Topkap Palace in Istanbul to more contemporary works by Cloud 9 Foreign Office Architects Steven Holl and OCEAN

*Bracket 3* Lola Sheppard, 2022-03-18 *Bracket at Extremes* includes critical articles and unpublished design projects that investigate architecture infrastructure and technology as they operate in conditions of imbalance negotiate tipping points and test limit states We are conditioned as designers of the built environment towards the organization of people programs and movement Indeed the history of modern urbanism architecture and building science has been predicated on an anti entropic notion of programmatic and social order But are there scenarios in which a state of extremity or imbalance is productive *Bracket at Extremes* seeks to understand what new spatial orders emerge in this liminal space How might it be leveraged as an opportunity for invention What are the limits of wilderness and control of the natural and artificial the real and the virtual What new landscapes networks and urban models might emerge in the wake of destabilized economic social and environmental conditions

*The Changing Shape of Practice* Michael U. Hensel, Fredrik Nilsson, 2016-04-14 Architectural practices worldwide have to deal with increasingly complex design requirements How do practices acquire the ability to do so *The Changing Shape of Practice* provides a handbook of examples for practices that wish to integrate more research into their work and a reference book for students that seek to prepare themselves for the changing shape of practice in architecture It addresses the increasing integration of research undertaken in architectural practices of different sizes ranging from small to very large practices from the UK USA Europe and Asia The book is organized according to the size of the practices which is significant in that it addresses the different structures and resourcing requirements that are enabled by specific practice sizes as this determines and constrains the type scope and modes of research available to a given practice The practices covered include Woods Bagot Perkins Will White AECOM UN Studio Shop Architects PLP Architecture Kieran Timberlake 3XN ONL AZPML Thomas Herzog Partners Herreros Arquitectos Spacescape OCEAN Design Research Association By taking stock of the current shape of practice the book provides essential information for professional

architects who are integrating research into their practice

**Patterns of Interaction** Pia Fricker, Toni Kotnik, 2023-02-06

This book is a reflection on contemporary computational design thinking at the intersection of architecture urban design and landscape architecture in a time marked by complex challenges like climate change urbanization and population growth Based on a critical rethinking of the notion of ground and the relation between the manmade and the natural environment an understanding of architecture as regenerative practice is proposed It aims at a built environment as landscape at an architecture of prosthetic nature The design approach is illustrated by a number of design experiments conducted within a studio setting and complemented by a series of conversations with leading experts on sustainable design and landscape architecture

*The Changing Shape of Architecture* Michael U. Hensel, Fredrik Nilsson, 2019-04-10 The discipline of architecture is currently undergoing a significant change as professional practice and academia seem to be transforming one another specifically through succinct research undertakings This book continues the discussion started in *The Changing Shape of Practice Integrating Research and Design in Architecture* on architectural offices modes of research and lines of inquiry in architecture and how it reshapes practice The book aims to contribute to the mapping and discussion on research in architectural practice and its transformational impact and gives input to the discussions on where the architectural profession is heading In this second volume various research initiatives and modes in architectural practices are portrayed The book also includes contributions that broaden the scope and put the developments into larger contexts and present an overview of developments from different regional perspectives and of various social aspects of architecture It also relates the developments in practice to educational efforts and to initiatives where the more traditional role of architects is challenged The contributions include chapters by Walter Unterrainer Anthony Burke Ren e Cheng and Andrea J Johnson and Michael U Hensel and on the practices atelier d architecture autog r e Helen Hard MVRDV and The Why Factory NADAAA Nader Tehrani Nordic Office of Architecture Schmidt Hammer Lassen Skidmore Owings Merrill Void Sarah Wigglesworth Architects and Ivstranden Utveckling

**Philosophical Hermeneutics and the Architecture of Álvaro Siza** Sally J.

Faulder, 2024-12-30 This book presents an original study of the work of Pritzker Prize winning Portuguese architect Ivaro Siza from the perspective of architecture as an interpretation of human life It combines philosophical hermeneutics narrative textual description and history and theory research to provide a rich account of Siza s work The book gives a detailed analysis of three of Siza s works from this perspective the Tidal Pool Piscina das Mar s in Le a da Palmeira Portugal the Galician Centre of Contemporary Art Centro Galego de Arte Contempor nea in Santiago de Compostela Spain and the Santa Maria Church in Marco de Canaveses Portugal This form of analysis provides insight into the unique temporal dimension of Siza s work both in the memory inscribed by the structure and in how what is inscribed is revealed by degrees to those who come into contact with it Drawing on Hans Georg Gadamer and Paul Ricoeur this book defines both building and inhabiting as acts of interpretation Through employing the technique of writing architecture as a mode of phenomenological description

the book uses one form of creative configuration narrative to draw out the meaning inscribed in another form of creative configuration architecture The book contributes a unique perspective to scholarship on Siza and an in depth study to the growing field of hermeneutics of architecture It will be of interest to researchers and students of architecture and philosophy

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

Structures and Architecture - Bridging the Gap and Crossing Borders Paulo J.S. Cruz, 2019-07-08 Structures and Architecture Bridging the Gap and Crossing Borders contains the lectures and papers presented at the Fourth International Conference on Structures and Architecture ICSA2019 that was held in Lisbon Portugal in July 2019 It also contains a multimedia device with the full texts of the lectures presented at the conference including the 5 keynote lectures and almost 150 selected contributions The contributions on creative and scientific aspects in the conception and construction of structures on advanced technologies and on complex architectural and structural applications represent a fine blend of scientific technical and practical novelties in both fields ICSA2019 covered all major aspects of structures and architecture including building envelopes fa ades comprehension of complex forms computer and experimental methods futuristic structures concrete and masonry structures educating architects and structural engineers emerging technologies glass structures innovative architectural and structural design lightweight and membrane structures special structures steel and composite structures structural design challenges tall buildings the borderline between architecture and structural engineering the history of the relationship between

architects and structural engineers the tectonic of architectural solutions the use of new materials timber structures among others This set of book and multimedia device is intended for a global readership of researchers and practitioners including architects structural and construction engineers builders and building consultants constructors material suppliers and product manufacturers and other professionals involved in the design and realization of architectural structural and infrastructural projects

**Event-Cities 5** Bernard Tschumi, 2024-11-12 An essential resource on the work of Bernard Tschumi Architects with a focus on how concept context and program intersect with intuition in singular and unexpected ways Event Cities 5 is the fifth and final volume in the MIT Press series documenting recent built and unbuilt projects by renowned architect Bernard Tschumi This volume expands on the theoretical preoccupations that have shaped Tschumi's work in practice and pedagogy In this volume Tschumi embarks on what he calls a poetics that addresses both the rational elaboration of work and the irrational eruption of inexplicable elements in architectural projects How do chance intuition and analogy among other elements intersect with the logical play of concept context and program to generate innovative and informed design Highlights of this volume include circular building projects works with suspended gardens and floating rectangular masses superposed structures created via surrealist tactics an immense educational research complex in France that hovers between building and urban design a museum in China made from intersecting conic shapes and a project for a cultural center in Italy that is structured as an investigation into courtyards and facades The book features nearly 30 projects developed over the last fifteen years and highlights Tschumi's longstanding interest not only in producing conceptual clarity but in questioning architecture itself

*Handbook of Research on Implementing Digital Reality and Interactive Technologies to Achieve Society 5.0* Ugliotti, Francesca Maria, Osello, Anna, 2022-06-30 Research on digital reality has been extensive in recent years covering a wide range of topics and leading to new ways to approach and deal with complex situations Within the Society 5.0 paradigm people and machines establish a positive relationship to find solutions for social aspects and problems This perspective establishes a strong interconnection between physical and virtual space making the user an active player for better life and society In these terms digital systems and virtual and augmented reality technologies enable multi-dimensional scenarios and additional levels of interdisciplinary collaboration to create a highly inclusive communication network and social framework The Handbook of Research on Implementing Digital Reality and Interactive Technologies to Achieve Society 5.0 provides an overview of methods processes and tools adopted to achieve super smart society needs by exploiting digital reality and interactive technologies It includes case studies that illustrate applications that place people's quality of life at the center of the digitalization process accessing and managing different information and data domains Covering topics such as cultural heritage interactive learning and virtual participation this major reference work is a comprehensive resource for business executives and managers IT managers government officials community leaders arts and performance organizers healthcare administrators and professionals faculty and administrators of both K-12 and higher



education students of higher education researchers and academicians      Design for Resilient Communities Anna Rubbo, Juan Du, Mette Ramsgaard Thomsen, Martin Tamke, 2023-09-19 The book provides new perspectives from leading researchers accentuating and examining the central role of the built environment in conceiving and implementing multifaceted solutions for the complex challenges of creating resilient communities revealing critical potentials for architecture and design to contribute in more informed and long term ways to the urgent transition of our society The volume offers a compilation of peer reviewed papers that uniquely connects knowledge and criticality broadly across practice and academia from new technologies theories and methods to community engaged practice on many scales and more The book is part of a series of six volumes that explore the agency of the built environment in relation to the SDGs through new research conducted by leading researchers The series is led by editors Mette Ramsgaard Thomsen and Martin Tamke in collaboration with the theme editors Design for Climate Adaptation Billie Faircloth and Maibritt Pedersen Zari Design for Rethinking Resources Carlo Ratti and Mette Ramsgaard Thomsen Eds Design for Resilient Communities Anna Rubbo and Juan Du Eds Design for Health Arif Hasan and Christian Benimana Eds Design for Inclusivity Magda Mostafa and Ruth Baumeister Eds Design for Partnerships for Change Sandi Hilal and Merve Bedir Eds      **Reshaping the Built Environment** Charles J. Kibert, 1999 Because of the profound effects of the built environment on the availability of natural resources for future generations those involved with designing creating operating renovating and demolishing human structures have a vital role to play in working to put society on a path toward sustainability This volume presents the thinking of leading academics and professionals in planning civil engineering economics ecology architecture landscape architecture construction and related fields who are seeking to discover ways of creating a more sustainable built environment Contributors address the broad range of issues involved offering both insights and practical examples In the book Stephen Kellert describes the scope of the looming ecological crisis Herman Daly explains the unsustainability of the world's economic system and the dangers inherent in the current movement toward globalization John Todd describes the evolution of wastewater processing systems inspired by natural systems John Tillman Lyle discusses the importance of landscape in the creation of the human environment Randall Arendt argues for a fundamental shift in land development patterns that would not only provide for more green space in new developments but would also increase the profitability of developers and the quality of life for new home owners Thomas E Graedel proposes the application of lessons learned from the emerging science of industrial ecology to the creation of green building While the transition to sustainability will not be easy natural systems provide abundant models of architecture engineering production and waste conversion that can be used in rethinking the human habitat and its interconnections This volume provides insights that can light the way to a new era in which a reshaped built environment will not only provide improved human living conditions but will also protect and respect the earth's essential natural life support systems and resources      **Taking Shape** Susannah Hagan, 2001 Taking Shape explores the evolution of scientific and

academic theories that have resulted in the concept of sustainability Susannah Hagan uses this as a basis to argue for developments in the future and argues that these theories are not just an intellectual and aesthetic regression as they are often perceived to be By focusing on the impact of the new theories of sustainable technology and new materials in architecture Hagan moves the discourse and practice of environmental sustainability within architecture towards a greater degree of awareness of both its cultural significance and cultural potential In short it demonstrates the capacity of sustainable architecture to embrace cultural and technical innovation Enables you to understand the evolution of the theoretical arguments behind sustainability Allows you to project into the future of sustainability technology rather than just examining the current situation Provides you with a valuable insight into the relationship between the physical and cultural context and architecture      Architecture of Change Lukas Feireiss,Kristin Feireiss,2008      Regreening the Built Environment Michael A. Richards,2025 Now in its second volume this book provides an overview of physical and social environmental challenges that the planet is facing and presents solutions It will stimulate discussions within the design profession and will be of great interest to students and practitioners of environmental studies architecture and urban design

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