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Performative Architecture - Branko Kolarevic - 2005-01
This book addresses the emergence of a new kind of architecture, in which building performance is a guiding design principle, adopting new performance-based priorities for the design of cities, buildings, landscape and infrastructures. This emerging architecture places broadly defined performance above form making; it utilizes digital technologies of quantitative and qualitative performance-based simulation to offer a comprehensive approach to the design of the build environment. The emphasis on building performance is now redefining expectations of the building design, its process and practice. By bringing together the leading architects, engineers and technologists, the book will explore current and future developments in performance-based design. It is aimed at both professional and academic audiences and will cover a wide range of themes. Godfried Augenbroe (USA), Jean-Francois Blassel (France), William Braham (USA), Jan Edler (Germany), Harald Kloft (Germany), David Leatherbarrow (USA), Peter McCleary (USA), Ali Rahim (USA), Mahadev

Performative Architecture - Branko Kolarevic - 2005-07-08
First Published in 2004. Routledge is an imprint of Taylor & Francis, an informa company.

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Architecture Beyond Criticism - Wolfgang F. E. Preiser - 2014-11-27
For the first time, this book demonstrates that the two paradigms of architectural criticism and performance evaluation can not only co-exist but
professionals will learn how to improve building design and performance with major stakeholders in mind, especially end users/occupants.

**Building Performance Analysis** - Pieter de Wilde - 2018-07-23
Explores and brings together the existent body of knowledge on building performance analysis Building performance is an important yet surprisingly complex concept. This book presents a comprehensive and systematic overview of the subject. It provides a working definition of building performance, and an in-depth discussion of the role building performance plays throughout the building life cycle. The book also explores the perspectives of various stakeholders, the functions of buildings, performance requirements, performance quantification (both predicted and measured), criteria for success, and the challenges of using performance analysis in practice. Building Performance Analysis starts by introducing the subject of building performance: its key terms, definitions, history, and challenges. It then develops a theoretical foundation for the subject, explores the complexity of performance assessment, and the way that performance analysis impacts on actual buildings. In doing so, it attempts to answer the following questions: What is building performance? How can building performance be measured and analyzed? How does the analysis of building performance guide the improvement of buildings? And what can the building domain learn from the way performance is handled in other disciplines? Assembles the current body of knowledge on building performance analysis in one unique resource Offers deep insights into the complexity of using building performance analysis throughout the entire building life cycle, including design, operation and management Contributes an emergent theory of building performance and its analysis Building Performance Analysis will appeal to the building science community, both from industry and academia. It specifically targets advanced students in architectural engineering, building services design, building performance simulation and similar fields who hold an interest in ensuring that buildings meet the needs of their stakeholders.

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How do digital media (mobile phones, GPS, iPods, portable computers, internet, virtual realities, etc.) affect the way we perceive, inhabit and design space? Why do architects traditionally design, draw and map the visual, as opposed to other types of sensations of space (the sound, the smell, the texture, etc.)? Architecture is not only about the solid, material elements of space; it is also about the invisible, immaterial, intangible elements of space. This book examines the design, representation and reception of the ephemeral in architecture. It discusses how architects map and examine the spatial qualities that these elements create and questions whether - and if so, how - they take them into account in the designing process. Karandinou argues that current interest in the ephemeral in contemporary culture and architecture is related to the evolution of digital media; and that it is related to the new ways of thinking about space and everyday situations that new media enables. With sound and video recording devices now being embedded in everyday gadgets and mobile phones, capturing sounds or ephemeral situations and events has become an everyday habit. New animation techniques allow designers to think about space through time, as they are able to design dynamic and responsive spaces, as well as static spaces explored by someone over time. Contemporary video games are no longer based on a simple visual input and a keyboard; they now involve other senses, movement, and the response of the whole body in space. This book therefore argues that the traditional binary opposition between the sensuous and the digital is currently being reversed. Subsequently, new media can also function as a new tool-to-think-with about space. Designers are now able to think through time, and design spaces accordingly. Time, temporality, ephemerality, become central issues in the designing process. The notion first claimed by Marshall McLuhan in the 1960s, that the emergence of new di
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The Routledge Companion for Architecture Design and Practice provides an overview of established and emerging trends in architecture practice. Contributions of the latest research from international experts examine external forces applied to the practice and discipline of architecture. Each chapter contains up-to-date and relevant information about select aspects of architecture, and the changes this information will have on the future of the profession. The Companion contains thirty-five chapters, divided into seven parts: Theoretical Stances, Technology, Sustainability, Behaviorism, Urbanism, Professional Practice and Society. Topics include: Evidence-Based Design, Performativity, Designing for Net Zero Energy, The Substance of Light in Design, Social Equity and Ethics for Sustainable Architecture, Universal Design, Design Psychology, Architecture, Branding and the Politics of Identity, The Role of BIM in Green Architecture, Public Health and the Design Process, Affordable Housing, Disaster Preparation and Mitigation, Diversity and many more. Each chapter follows the running theme of examining external forces applied to the practice and discipline of architecture in order to uncover the evolving theoretical tenets of what constitutes today’s architectural profession, and the tools that will be required of the future architect. This book considers architecture’s interdisciplinary nature, and addresses its current and evolving perspectives related to social, economic, environmental, technological, and globalization trends. These challenges are central to the future direction of architecture and as such this Companion will serve as an invaluable reference for undergraduate and postgraduate students, existing practitioners and future architects.
The Routledge Companion to Paradigms of Performativity in Design and Architecture - Mitra Kanaani - 2019-12-12
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 45 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.

This book describes the latest advances, innovations, and applications in the field of building design, environmental engineering and sustainability as presented by leading international researchers, engineers, architects and urban planners at the 3rd International Sustainable Buildings Symposium (ISBS), held in Dubai, UAE from 15 to 17 March 2017. It covers highly diverse topics, including smart cities, sustainable building and construction design, sustainable urban planning, infrastructure development, structural resilience under natural hazards, water and waste management, energy efficiency, climate change impacts, life cycle assessment, environmental policies, and strengthening and rehabilitation of structures. The contributions amply demonstrate that sustainable building design is key to protecting and preserving natural resources, economic growth, cultural heritage and public health. The contributions were selected by means of a rigorous peer-review process and highlight many exciting ideas that will spur novel research directions and foster multidisciplinary collaboration among different specialists.

Performance-Oriented Architecture - Michael Hensel - 2013-05-20

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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 this argument, from traditional sustainable buildings, such as the Kahju Bridge in Isfahan and the Topkapı Palace in Istanbul to more contemporary works by Cloud 9, Foreign Office Architects, Steven Holl and OCEAN.

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**Landscape Architecture and Digital Technologies** - Jillian Walliss - 2016-02-12

Landscape Architecture and Digital Technologies explores how digital technologies are reshaping design and making in landscape architecture. While the potentials of digital technologies are well documented within landscape planning and visualisation, their application within design practice is far less understood. This book highlights the role of the digital model in encouraging a new design logic that moves from the privileging of the visual to a focus on processes of formation, bridging the interface of the conceptual and material, the virtual and the physical. Drawing on interviews and projects from a range of international designers - including, Snøhetta, Arup, Gustafson Porter, ASPECT Studios, Grant Associates, Catherine Mosbach, Philippe Rahm, PARKKIM, LAAC and PEG office of landscape + architecture among others, the authors explore the influence of parametric modelling, scripting, real-time data, simulation, prototyping, fabrication, and Building Information Modelling on the design and construction of contemporary landscapes. This engagement with practice is expanded through critical reflection from academics involved in landscape architecture programs around the world that are reshaping their research and pedagogy to reflect an expanded digital realm. Crossing critical theory, technology and contemporary design, the book constructs a picture of an
Definitions of space are as diverse as the disciplines in which it plays a fundamental role; from science and philosophy to art and architecture, each field’s perception of space is often simplified or reduced. This consequently denies access to ‘new spaces’, whose definitions and perspectives, strategies and impacts on human perception are rarely considered in any cohesive manner. This is where the Aedes Network Campus Berlin (ANCB) programme ‘No Space Without Traits’ came in: particularly through artistic approaches, it aimed to open doors into spatial worlds that until now have remained closed. The symposium ‘PERCEPTION in Architecture. HERE and NOW’ was part of this programme and invited critical and comprehensive contributions by academics, artists, architects, designers and curators. These presentations are brought together in this volume to reflect upon new spatial concepts and thus access ‘new spaces’ of perception in architecture. The symposium stimulated a discourse focused on spaces as a collective entity, notions of spatial truth, the multiplicity of experience, and Wahrnehmungsapparate, as well as physical, visual, acoustic and virtual manifestations of space in relation to social, cultural, historical and political forces.

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**PERCEPTION in Architecture** - Claudia Perren - 2015-02-27

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Virtual Futures for Design, Construction and Procurement - Peter S. Brandon - 2009-01-22
This book brings together some of the best practitioners and thinkers from around the world to discuss the likely future of information and communication technologies for the construction industry. It addresses a range of innovative developments, state of the art applications, research work and theoretical arguments with regard to the use of virtual technologies in design, construction and procurement. From a future oriented perspective, the book presents what can be expected from the next generation of these technologies.

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This book constitutes the refereed proceedings of the 16th International Conference on Computer-Aided Architectural Design Futures, CAAD Futures 2015, held in São Paulo, Brazil, in July 2015. The 33 revised full papers presented were carefully reviewed and selected from 200 submissions. The papers are organized in topical sections on modeling, analyzing and simulating the city; sustainability and performance of the built space; automated and parametric design; building information modelling (BIM); fabrication and materiality; shape studies.

Performing Architectures - Andrew Filmer - 2018-05-03
Performing Architectures offers a coherent introduction to the fields of performance and contemporary architecture, exploring the significance of architecture for performance theory and theatre and performance practice. It maps the diverse relations that exist between these disciplines and demonstrates how their aims, concerns and practices overlap through shared interests in space, action and event. Through a wide range of international examples and contributions from scholars and practitioners, it offers readers an analytical survey of current practices and equips them with the tools for analyzing site-specific and immersive theatre and performance. The essays in this volume, contributed by leading theorists and practitioners from both disciplines, focus on three key sites of encounter: * Projects: examines recent trends in architecture for performance; * Practices: looks at cross-currents in artistic practice, including spatial dramaturgies, performance architectonics and performative architectures; and * Pedagogies: considers the uses of performance in architectural education and architecture in teaching performance. The volume provides an essential introduction to the ways in which performance and architecture, as socio-spatial processes and as things made or constructed, operate as generating, shaping and steering forces in understanding and performing the other.

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The Death of Drawing - David Ross Scheer - 2014-06-05
The Death of Drawing explores the causes and effects of the epochal shift from drawing to computation as the chief design and communication medium in architecture. Drawing both framed the thinking of architects and organized the design and construction process to place architects at its center. Its displacement by building information modeling (BIM) and computational design recasts both the terms in which architects think and their role in building production. Author David Ross Scheer explains that, whereas drawing allowed architects to represent ideas in form, BIM and computational design simulate experience, making building behavior or performance the primary object of design. The author explores many ways in which this displacement is affecting architecture: the dominance of performance criteria in the evaluation of design decisions; the blurring of the separation of design and construction; the undermining of architects’ authority over their projects by automated information sharing; the elimination of the human body as the common foundation of design and experience; the transformation of the meaning of geometry when it is performed by computers; the changing nature of design when it requires computation or is done by a digitally-enabled collaboration. Throughout the book, Scheer examines both the theoretical bases and the practical consequences of these changes. The Death of Drawing is a clear-eyed account of the reasons for and consequences of the displacement of drawing by computational media in architecture. Its aim is to give architects the ability to assess the impact of digital media on their own work and to see both the challenges and opportunities of this historic moment in the history of their discipline.
Performative Materials in Architecture and Design - Rashida Ng - 2013-05-01
Performative Materials in Architecture and Design addresses the convergence of several significant and fundamental advancements in the ways that materials and environments are designed, evaluated, and experiences within architecture and related disciplines. The emergence of experimental and ultra-performing materials, interactive processing systems, and digital design and fabrication techniques has established an interconnected network of technological inputs that has stimulated the development of materials, assemblies, and systems with performative properties. Providing an overview of representative design projects and relevant theories, this volume illuminates both the interaction of these technologies and the role of materiality in research, design, and practice.

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.
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**Questioning Architectural Judgment** - Steven A. Moore - 2013-07-24
The book shines light on the problem of judgment, particularly in the realm of architectural "technics" and the codes that regulate it. The struggle to define "sustainability," and thus judge architecture through such lenses, is but one dimension of the contemporary problem of judgment. By providing the reader with an inherently interdisciplinary study of a particular discipline—architecture, it brings to the topic lenses that challenge the too frequently unexamined assumptions of the discipline. By situating architecture within a broader cultural field and using case studies to dissect the issues discussed, the book emphasizes that it is not simply a matter of designing better, more efficient, or more stringent codes to guide place-making, but a matter of reconstructing the boundaries of the systems to be coded. The authors are winners of the EDRA Place-Research Award 2014 for their work on the Green Alley Demonstration Project used in the book.

**Theatre and Architecture** - Juliet Rufford - 2015-01-14
Theatre and architecture are seeming opposites: one a time-based art-form experienced in space, the other a spatial art experienced over time. The book unpicks these assumptions, demonstrating ways in which theatre and architecture are essential to each other and contextualizing their dynamic relationship historically and culturally.

**Advances in Architectural Geometry 2010** - Cristiano Ceccato - 2016-12-05
Geometry lies at the core of the architectural design process. It is omnipresent, from the initial determination of form to the final construction. Modern geometric computing provides a variety of tools for the efficient design, analysis, and manufacturing of complex shapes. On the one hand this opens up new horizons for architecture. On the other, the architectural context also poses new problems for geometry. The research area of architectural geometry, situated at the border of applied geometry and architecture, is emerging to address these problems. This volume, presenting the papers accepted at the 2010 Advances in Architectural Geometry conference in Vienna, reflects the substantial progress made in this field. The interdisciplinary nature of architectural geometry is reflected in the diversity of backgrounds of the contributing authors. Renowned architects, engineers, mathematicians, and computer scientists present novel research ideas and cutting-edge solutions at the interface of geometry processing and architectural design.
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**Performatism** - Yasha J. Grobman - 2013-01-11
Today, with the advent of digital media technologies and the ability to conceptualize, express and produce complex forms using digital means, the question of the status of the architectural form is once again under consideration. Indeed, the computer liberated architecture from the tyranny of the right angle and enabled the design and production of non-standard buildings, based on irregular geometry. Yet, the questions concerning the method of form expression in contemporary architecture, and its meaning, remain very much open. Performatism takes up this discussion, defines it and presents changes in form conception in architecture, followed by their repercussions. The book is supported by a wealth of case studies from some of the top firms across the globe and contributed to by some of the top names in this field. With a unique and insightful emphasis on professional practice this is essential reading for all architects, aspiring and practicing.

**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.

**Architecture as a Performing Art** - Marcia Feuerstein - 2016-04-15
How do buildings act with people and among people in the performances of life? This collection of essays reveals a deep alliance between architecture and the performing arts, uncovering its roots in ancient stories, and tracing a continuous tradition of thought that emerges in contemporary practice. With fresh insight, the authors ask how buildings perform with people as partners, rather than how they look as formal compositions. They focus on actions: the door that offers the possibility of making a dramatic entrance, the window that frames a scene, and the city street that is transformed in carnival. The essays also consider the design process as a performance improvised among many players and offer examples of recent practice that integrates theater and dance. This collection advances architectural theory, history, and criticism by proposing the lens of performance as a way to engage the multiple roles that buildings can play, without reducing them to functional categories. By casting architecture as spatial action rather than as static form, these essays open a promising avenue for future investigation. For architects, the essays propose integrating performance into design through playful explorations that can reveal intense relationships between people and place, and among people in place. Such practices develop an architectural imagination that intuitively asks, 'How might people play out their stories in this place?' and 'How might this place spark new stories?' Questions such as these reside in the heart of all of the essays presented here. Together, they open a position in the intersection between everyday life and staged performance to rethink the role of architectural design.

**Building Materials** - Katie Lloyd Thomas - 2021-11-18
At a time of unprecedented levels of change in the production of building materials and their deployment in construction, better theoretical and historical tools are needed to understand these new developments and how they are altering the practices and concepts of architecture. Building Materials offers a radical rethink of how materials, as they are constituted in architectural practice, are themselves constructed and, in turn, uncovers a vast and neglected resource of architectural writing about materials as they are mobilized in architecture. The book is unique in conceiving architectural specification as a starting point for architectural theory, arguing that how materials are prescribed - through a range of practices from the literal processes of procurement and manufacture to epistemological, contractual, social and economic frameworks - radically alters their potential in architecture. Drawing on the work of French philosopher Gilbert Simondon, as well as close readings of everyday specifications from the 18th to 21st centuries, the book reveals that materials do not pre-exist their shaping or use in the world, but come into being through the processes that constitute them. The book addresses three distinct methods of specification each through the lens of a different material - 'naming' through timber, 'process-based' through concrete, and 'performance specification' through glass - in turn revealing how the history, and criticism by proposing the lens of performance as a way to engage the multiple roles that buildings can play, without reducing them to functional categories. By casting architecture as spatial action rather than as static form, these essays open a promising avenue for future investigation. For architects, the essays propose integrating performance into design through playful explorations that can reveal intense relationships between people and place, and among people in place. Such practices develop an architectural imagination that intuitively asks, 'How might people play out their stories in this place?' and 'How might this place spark new stories?' Questions such as these reside in the heart of all of the essays presented here. Together, they open a position in the intersection between everyday life and staged performance to rethink the role of architectural design.
for large-scale automated construction. The latent argument behind this Simondon puts it) allows for the development of specific relationships between material and function.

**Building Materials** - Katie Lloyd Thomas - 2021-11-18
At a time of unprecedented levels of change in the production of building materials and their deployment in construction, better theoretical and historical tools are needed to understand these new developments and how they are altering the practices and concepts of architecture. Building Materials offers a radical rethink of how materials, as they are constituted in architectural practice, are themselves constructed and, in turn, uncovers a vast and neglected resource of architectural writing about materials as they are mobilized in architecture. The book is unique in conceiving architectural specification as a starting point for architectural theory, arguing that how materials are prescribed - through a range of practices from the literal processes of procurement and manufacture to epistemological, contractual, social and economic frameworks - radically alters their potential in architecture. Drawing on the work of French philosopher Gilbert Simondon, as well as close readings of everyday specifications from the 18th to 21st centuries, the book reveals that materials do not pre-exist their shaping or use in the world, but come into being through the processes that constitute them. The book addresses three distinct methods of specification each through the lens of a different material – ‘naming' through timber, 'process-based' through concrete, and ‘performance specification' through glass – in turn revealing how the process of architectural specification (or ‘Preliminary Operations' as Simondon puts it) allows for the development of specific relationships between material and function.

**Robotic Fabrication in Architecture, Art and Design 2016** - Dagmar Reinhardt - 2016-02-03
The book presents the proceedings of Rob/Arch 2016, the third international conference on robotic fabrication in architecture, art, and design. The work contains a wide range of contemporary topics, from methodologies for incorporating dynamic material feedback into existing fabrication processes, to novel interfaces for robotic programming, to new processes for large-scale automated construction. The latent argument behind this research is that the term ‘file-to-factory’ must not be a reductive celebration of expediency but instead a perpetual challenge to increase the quality of feedback between design, matter, and making.

**Eco-architecture III** - Santiago Hernández - 2010-03-16
This book contains most of the papers presented in the Eco-Architecture 2010 conference, which was the third edition of the International Conference on Harmonisation between Architecture and Nature. Previous editions, that were very successful were held previously in the New Forest, UK, in 2006 and the Algarve, Portugal in 2008 and demonstrated the importance of a forum like this to discuss the characteristics and challenges of such architectural vision. Eco-Architecture implies a new approach to the design process intended to harmonise its products with nature. This involves ideas such as minimum use of energy at each stage of the building process, taking into account the amount required during the extraction and transportation of materials, their fabrication, assembly, building erection, maintenance and eventual future recycling. Presentations in the conference were related to topics like building technologies, design by passive systems, design with nature, ecological and cultural sensitivity, life cycle assessment, quantifying sustainability in architecture, resources and rehabilitation, and issues from education, research and practice. Case studies from different places around the world were also presented.
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This book embraces the idea that in today’s complex world, multiple, emerging perspectives are critical to the design fields, the environment, and society. It also brings authors into conversation to focus on the built environment from the perspective of critical practice. The authors take as a starting point Jane Rendell’s ground-breaking work, which defines critical spatial practice as “self-reflective modes of thought that seek to change the world.” In opposition to conventional conceptions of architectural education and work, this book reflects how socially engaged architects, landscape architects, designers, urbanists, and artists take up critical spatial practice. Bridging ideas from multiple countries and approaches to design scholarship, each chapter seeks to find places of convergence for the multiple strands that form around themes of practice, equality, methods, theory, ethics, pedagogy, and representation. Rendell’s foreword and postscript provide context for these themes and suggest a way forward in today’s challenging, changing times.

The Interior Architecture Theory Reader - Gregory Marinic - 2018-01-17

The Interior Architecture Theory Reader presents a global compilation that collectively and specifically defines interior architecture. Diverse views and comparative resources for interior architecture students, educators, scholars, and practitioners are needed to develop a proper canon for this young discipline. As a theoretical survey of interior architecture, the book examines theory, history, and production to embrace a full range of interior identities in architecture, interior design, digital fabrication, and spatial installation. Authored by leading educators, theorists, and practitioners, fifty chapters refine and expand the discourse surrounding interior architecture.

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The idea that buildings could be used to reform human behaviour and improve society was fundamental to the ‘modernist’ architecture and planning of people like Walter Gropius, Le Corbusier and José Luis Sert in the first half of the 20th century. Their proposals for functional zoning, multi-level transport, high-rise living, and machine-inspired aesthetics came under attack from the 1950s onwards, and many alternative approaches to architecture and planning emerged. It was thought that the environmental determinist strand of the discourse was killed off at this time as well. This book argues that it was not, but on the contrary, that it has deepened and diversified. Many of the most prominent architect-planners continue to design with a view to improving the behaviour of individual people and of society at large. By looking at - and interviewing - major figures and movements of recent years in Britain, Europe and America, including Léon Krier, Peter Eisenman, Andrés Duany, Jane Jacobs, Robert Venturi and Denise Scott Brown, it demonstrates the myriad ways that architect-planners seek to shape human behaviour through buildings. In doing so, the book raises awareness of this strand within the discourse and examines its different purposes and manifestations. It questions whether it is an ineradicable and beneficial part of architecture and planning, or a regrettable throwback to a more authoritarian phase, discusses why is it seldom acknowledged directly and whether it could be handled more responsibly and with greater understanding. Richards does not provide any simple solutions but in conclusion, is critical of architect-planners who abuse the rhetoric of social reform simply to leverage their attempts to secure building commissions, while being more sympathetic towards those who appear to have a sincere desire to improve society through their buildings.

Post-industrial Robotics - Angelo Figliola -

The Routledge Companion to Biology in Art and Architecture - Charissa N. Terranova - 2016-08-12
The Routledge Companion to Biology in Art and Architecture collects thirty essays from a transdisciplinary array of experts on biology in art and architecture. The book presents a diversity of hybrid art-and-science
The Routledge Companion to Biology in Art and Architecture - Charissa N. Terranova - 2016-08-12
The Routledge Companion to Biology in Art and Architecture collects thirty essays from a transdisciplinary array of experts on biology in art and architecture. The book presents a diversity of hybrid art-and-science thinking, revealing how science and culture are interwoven. The book situates bioart and bioarchitecture within an expanded field of biology in art, architecture, and design. It proposes an emergent field of biocreativity and outlines its historical and theoretical foundations from the perspective of artists, architects, designers, scientists, historians, and theoreticians. Includes over 150 black and white images.

The SAGE Handbook of Architectural Theory - C. Greig Crysler - 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 Noyes Professor 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.
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The escalating interdependency of nations drives global geopolitics to shift ever more quickly. Societies seem unable to control any change that affects their cities, whether positively or negatively. Challenges are global, but solutions need to be implemented locally. How can architectural research contribute to the future of our changing society? How has it contributed in the past? The theme of the 10th EAAE/ARCC International Conference, “Architectural Research Addressing Societal Challenges”, was set to address these questions. This book, Architectural Research Addressing Societal Challenges, includes reviewed papers presented in June 2016, at the 10th EAAE/ARCC International Conference, which was held at the facilities of the Faculty of Architecture of the University of Lisbon. The papers have been further divided into the following five sub-themes: a Changing Society; In Transit – Global Migration; Renaturalization of the City; Emerging Fields of Architectural Practice; and Research on Architectural Education. The EAAE/ARCC International Conference, held under the aegis of the EAAE and of the ARCC, is a conference organized every other year, in collaboration with one of the member schools/universities of those associations, alternatively in North America or in Europe.

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Entangled - Chris Salter - 2010
How technologies, from the mechanical to the computational, have transformed artistic performance practices. This ambitious and comprehensive book explores technology's influence on artistic performance practices in the twentieth and twenty-first centuries. In Entangled, Chris Salter shows that technologies, from the mechanical to the computational—from a "ballet of objects and lights" staged by Diaghilev's Ballets Russes in 1917 to contemporary technologically-enabled "responsive environments"—have been entangled with performance across a wide range of disciplines. Salter examines the rich and extensive history of performance experimentation in theater, music, dance, the visual and media arts, architecture, and other fields; explores the political, social, and economic context for the adoption of technological practices in art; and shows that these practices have a set of common histories despite their disciplinary borders. Each chapter in Entangled focuses on a different form: theater scenography, architecture, video and image making, music and sound composition, body-based arts, mechanical and robotic art, and interactive environments constructed for research, festivals, and participatory urban spaces. Salter's exhaustive survey and analysis shows that performance traditions have much to teach other emerging practices—in particular in the burgeoning fields of new media. Students of digital art need to master not only electronics and code but also dramaturgy, lighting, sound, and scenography. Entangled will serve as an invaluable reference for students, researchers, and artists as well as a handbook for future praxis.

When Brains Meet Buildings - Michael A. Arbib - 2021-08-11
After decades of research on minds and brains and a decade of conversations with architects, Michael Arbib presents When Brains Meet Buildings as an invitation to the science behind architecture, richly illustrated with buildings both famous and domestic. As he converses with the reader, he presents action-oriented perception, memory, and imagination as well as atmosphere, aesthetics, and emotion as keys to
faced by architect, engineer and client today. Green Buildings Pay: Design, it might mean for buildings to have "brains" and illuminates all this with an appreciation of the biological and cultural evolution that supports the diverse modes of human living that we know today. These conversations will not only raise the level of interaction between architecture and neuroscience but, by explaining the world of each group to the other, will also engage all readers who share a fascination with both the brains within them and the buildings around them. Michael Arbib is a pioneer in the interdisciplinary study of computers and brains and has long studied brain mechanisms underlying the visual control of action. His expertise makes him a unique authority on the intersection of architecture and neuroscience.

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**Green Buildings Pay** - Brian W. Edwards - 2013-08-22
This third edition of Green Buildings Pay presents new evidence and new arguments concerning the institutional and business case that can be made for green design. The green argument has moved a long way forward since the previous edition, and this fully updated book addresses the key issues faced by architect, engineer and client today. Green Buildings Pay: Design, Productivity and Ecology examines, through a range of detailed case studies, how different approaches to green design can produce more sustainable patterns of development. These cases are examined from three main perspectives: that of the architect, the client and the user. Completely revised with all new chapters, cases, sections and introductory material the third edition presents: over 20 new researched case studies drawn from the UK, Europe and the USA, written in collaboration with the architects, engineers, clients and user groups examples of office and educational buildings of high sustainable and high architectural quality an exploration of the architectural innovations that have been driven by environmental thinking, such as the new approaches to the design of building facades, roofs, and atria cases which demonstrate current practice in the area of energy/eco-retrofits of existing buildings documentation of the benefit impact assessment schemes such as LEED and BREEAM have had upon client expectations and on design approaches over the past decade beautiful full color illustrations throughout. In the fast evolving arena of green building, the book shows how architects are reshaping their practices to deal with ever more demanding energy standards and better informed users and corporate clients.
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**Computational Design Methods and Technologies: Applications in CAD, CAM and CAE Education** - Gu, Ning - 2012-01-31

The emergence and adoption of computational technologies has significantly changed design and design education beyond the replacement of drawing boards with computers or pens and paper with computer-aided design (CAD), computer-aided manufacturing (CAM), and computer-aided engineering (CAE) applications. Computational Design Methods and Technologies: Applications in CAD, CAM and CAE Education explores state-of-the-art developments in computational design methods and their impact on contemporary design education. Readers will find case studies, empirical research findings, pedagogical theories, and reflections. Researchers, educators, designers, and developers will better understand how applying pedagogical research and reflection has influenced and will continue to transform the field in the future.

**Humanizing Digital Reality** - Klaas De Rycke - 2017-09-15

This book aims at finding some answers to the questions: What is the influence of humans in controlling CAD and how much is human in control of its surroundings? How far does our reach as humans really go? Do the complex algorithms that we use for city planning nowadays live up to their expectations and do they offer enough quality? How much data do we have and can we control? Are today's inventions reversing the humanly controlled algorithms into a space where humans are controlled by the algorithms? Are processing power, robots for the digital environment and construction in particular not only there to rediscover what we already knew and know or do they really bring us further into the fields of constructing and architecture? The chapter authors were invited speakers at the 6th Symposium "Design Modelling Symposium: Humanizing Digital Reality", which took place in Ensa-Versailles, France from 16 - 20 September 2017.
John Ruskin and the Fabric of Architecture - Anuradha Chatterjee -
2017-10-02
Through the theoretical lenses of dress studies, gender, science, and visual studies, this volume analyses the impact John Ruskin has had on architecture throughout the nineteenth and twentieth centuries. It explores Ruskin’s different ideologies, such as the adorned wall veil, which were instrumental in bringing focus to structures that were previously unconsidered. John Ruskin and the Fabric of Architecture examines the ways in which Ruskin perceives the evolution of architecture through the idea that architecture is surface. The creative act in architecture, analogous to the divine act of creation, was viewed as a form of dressing. By adding highly aesthetic features to designs, taking inspiration from the ‘veil’ of women’s clothing, Ruskin believed that buildings could be transformed into meaningful architecture. This volume discusses the importance of Ruskin’s surface theory and the myth of feminine architecture, and additionally presents a competing theory of textile analogy in architecture based on morality and gender to counter Gottfried Semper’s historicist perspective. This book would be beneficial to students and academics of architectural history and theory, gender studies and visual studies who wish to delve into Ruskin’s theories and to further understand his capacity for thinking beyond the historical methods. The book will also be of interest to architectural practitioners, particularly Ruskin’s theory of surface architecture.

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