



MIND IN ARCHITECTURE

Neuroscience, Embodiment, and the Future of Design

edited by Sarah Robinson and Juhani Pallasmaa

Mind In Architecture Neuroscience Embodiment And The Future Of Design

Ian Ritchie



Mind In Architecture Neuroscience Embodiment And The Future Of Design:

Mind in Architecture Sarah Robinson, Juhani Pallasmaa, 2015-04-24 Leading neuroscientists and architects explore how the built environment affects our behavior thoughts emotions and well being Although we spend more than ninety percent of our lives inside buildings we understand very little about how the built environment affects our behavior thoughts emotions and well being We are biological beings whose senses and neural systems have developed over millions of years it stands to reason that research in the life sciences particularly neuroscience can offer compelling insights into the ways our buildings shape our interactions with the world This expanded understanding can help architects design buildings that support both mind and body In *Mind in Architecture* leading thinkers from architecture and other disciplines including neuroscience cognitive science psychiatry and philosophy explore what architecture and neuroscience can learn from each other They offer historical context examine the implications for current architectural practice and education and imagine a neuroscientifically informed architecture of the future Architecture is late in discovering the richness of neuroscientific research As scientists were finding evidence for the bodily basis of mind and meaning architecture was caught up in convoluted cerebral games that denied emotional and bodily reality altogether This volume maps the extraordinary opportunity that engagement with cutting edge neuroscience offers present day architects Contributors Thomas D Albright Michael Arbib John Paul Eberhard Melissa Farling Vittorio Gallese Alessandro Gattara Mark L Johnson Harry Francis Mallgrave Iain McGilchrist Juhani Pallasmaa Alberto Perez Gomez Sarah Robinson *Time and Space* Maria do Rosário Monteiro, Mário S. Ming Kong, Maria João Pereira Neto, 2023-11-09 The texts presented in *Proportion Harmonies and Identities PHI Time and Space* were compiled to establish a multidisciplinary platform for presenting interacting and disseminating research It also aims to foster awareness and discussion on Time and Space focusing on different visions relevant to Architecture Arts and Humanities Design and Social Sciences and its importance and benefits for the sense of identity both individual and communal The idea of Time and Space has been a powerful motor for development since the Western Early Modern Age Its theoretical and practical foundations have become the working tools of scientists philosophers and artists who seek strategies and policies to accelerate the development process in different contexts **The Interiors Theory Primer** William Mangold, 2025-07-31 In a world where life is increasingly defined by the spaces we inhabit understanding interiors is essential to understanding ourselves *The Interiors Theory Primer* maps the intellectual terrain of interior design and spatial experience introducing readers to key concepts that shape how people occupy interior spaces Organized into three parts this book begins with foundational concerns such as place identity materiality and atmosphere and then examines the boundaries and expertise of the discipline before turning to critical and emerging topics like biophilia virtuality and social justice Each chapter presents a focused literature review of a major theme in interiors theory supported by key design precedents and suggestions for further reading Drawing on a wide range of scholarship *The Interiors Theory Primer* offers a coherent framework for

understanding interiors as a distinct interdisciplinary field deeply embedded in the human condition Accessible to students useful to professionals and provocative for scholars The Interiors Theory Primer argues that the designed environments in which we live work and gather deserve greater attention not only for their aesthetic and functional qualities but also for their powerful role in shaping contemporary life

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

The Tacit Dimension Lara Schrijver, 2021-05-03 In architecture tacit knowledge plays a substantial role in both the design process and its reception The essays in this book explore the tacit dimension of architecture in its aesthetic material cultural design based and reflexive understanding of what we build Tacit knowledge described in 1966 by Michael Polanyi as what we can know but cannot tell often denotes knowledge that escapes quantifiable dimensions of research Much of architecture s knowledge resides beneath the surface in nonverbal instruments such as drawings and models that articulate the spatial imagination of the design process Awareness of the tacit dimension helps to understand the many facets of the spaces we inhabit from the ideas of the architect to the more hidden assumptions of our cultures Beginning in the studio where students are guided into becoming architects the book follows a path through the tacit knowledge present in materials conceptual structures and the design process revealing how the tacit dimension leads to craftsmanship and the situated knowledge of architecture in the world Contributors Tom Avermaete ETH Zurich Margitta Buchert Leibniz Universität Hannover Christoph Grafe Bergische Universität Wuppertal Mari Lending The Oslo School of Architecture and Design Angelika Schnell Academy of Fine Arts Vienna Eireen Schreurs Delft University of Technology Lara Schrijver University of Antwerp

Transforming Issues in Housing Design Kutay Guler, 2023-11-02 TRANSFORMING ISSUES IN HOUSING DESIGN A practical and complete resource for students researchers and practitioners of housing design Transforming Issues in Housing Design delivers a comprehensive vision for the design philosophy psychology efficiency and constitution of housing This collection of articles explores many of the most pressing and relevant issues related to the ongoing transformation of housing design Twenty two contributed chapters discuss the past and current state of housing design how it evolved to become what it is today and finally how it may unfold in the future A team of global experts presents the most up to date research and a diverse and illuminating collection of

examples to highlight housing design around the world Readers will also find A thorough introduction to modern housing design and how it relieves and contributes to various social and economic problems Insightful explorations of the built environment interior architecture urban design sustainable living space planning and more Practical discussions of a theoretical framework to make sense of housing design concepts Complete treatments of concepts research and built projects from a diverse range of communities and cultures Perfect for architects and students of urban studies interior design and architecture Transforming Issues in Housing Design will also benefit those who design research and teach housing

Topographies of Memories Anita Bakshi, 2017-11-09 This book explores new approaches towards developing memorial and heritage sites moving beyond the critique of existing practices that have been the traditional focus of studies of commemoration Offering understandings of the effects of conflict on memories of place as manifested in everyday lives and official histories it explores the formation of urban identities and constructed images of the city Topographies of Memories suggests interdisciplinary approaches for creating commemorative sites with shared stakes The first part of the book focuses on memory dynamics the second on Nicosia the divided capital of Cyprus and the third on physical and material world interventions Design practices and modes of engagement with places of memory are explored making connections between theoretical explorations of memory and forgetting and practical strategies for designers and practitioners **Intertwining:**

Baukultur Sarah Robinson, Alessandro Gattara, Davide Ruzzon, 2019-10-15 After the 2018 Davos Declaration it s been perceived as extremely urgent a return to urban transformation practices linked with cultural values What does this mean What kind of values should designers planners and public administrators put at the center of their decision making process We have developed these questions with the help of scholars architects and thinkers with a focus on the way in which the fruitful encounter between human sciences and architecture could address this challenge the latest issue of Intertwining is the result of this debate Intertwining is the first architectural magazine to explore the intersections between the humanities and the empirical sciences especially between the art of building Baukunst and cognitive neuroscience **From Object to**

Experience Harry Francis Mallgrave, 2018-06-28 Harry Francis Mallgrave combines a history of ideas about architectural experience with the latest insights from the fields of neuroscience cognitive science and evolutionary biology to make a powerful argument about the nature and future of architectural design Today the sciences have granted us the tools to help us understand better than ever before the precise ways in which the built environment can affect the building user s individual experience Through an understanding of these tools architects should be able to become better designers prioritizing the experience of space the emotional and aesthetic responses and the sense of homeostatic well being of those who will occupy any designed environment In From Object to Experience Mallgrave goes further arguing that it should also be possible to build an effective new cultural ethos for architectural practice Drawing upon a range of humanistic and biological sources and emphasizing the far reaching implications of new neuroscientific discoveries and models this book

brings up to date insights and theoretical clarity to a position that was once considered revolutionary but is fast becoming accepted in architecture

Architecture is a Verb Sarah Robinson, 2021-03-01 Architecture is a Verb outlines an approach that shifts the fundamental premises of architectural design and practice in several important ways First it acknowledges the centrality of the human organism as an active participant interdependent in its environment Second it understands human action in terms of radical embodiment grounding the range of human activities traditionally attributed to mind and cognition imagining thinking remembering in the body Third it asks what a building does that is extends the performative functional interpretation of design to interrogate how buildings move and in turn move us how they shape thought and action Finally it is committed to articulating concrete situations by developing a taxonomy of human building interactions Written in engaging prose for students of architecture interiors and urban design as well as practicing professionals Sarah Robinson offers richly illustrated practical examples for a new generation of designers

Neuroarchitecture Ian Ritchie, 2020-12-21 Applying the insights of neuroscience to architecture has the potential to deliver buildings and spaces that measurably promote well being and create healthier or more effective environments for specific activities There is however a risk that neuroarchitecture will become just another buzzword a passing architectural fashion or a marketing exercise just as eco green and sustainable have become This issue of AD offers the reader an alternative to neuro sound bites and exposes them to the thinking which led to the design of the Sainsbury Wellcome Centre for Neural Circuits and Behaviour SWC a pioneering medical research facility designed to foster collaboration between researchers Multi award winning the SWC was one of the first buildings in the world designed to take into account what has been learned about how the work space affects behaviour and is a highly effective building in which to work Readers will gain a richer deeper insight into the complex mental and existential aspects of architecture design and our many senses how they interact and might interact in the future and how that knowledge can be used to design more effective buildings and built environments

Trabajos de prehistoria, 2021

The Architecture of Resonance SARAH. ROBINSON, 2025-12-04 The profound impact that design has on human experience physically emotionally cognitively or ecologically is now well established And while this experiential and affective turn in architecture is gaining momentum studio time remains primarily dedicated to the creation of buildings as independent objects with minimal regard for the interactions and impacts those buildings may have on their inhabitants and their surroundings This book carefully details an alternative for thinking and designing that shifts attention from abstract formalism and object orientation to the creation of dynamic interacting fields of affective tactile kinaesthetic ecological and social engagement The book articulates resonance as a model and metaphor for the way we interact with our environments The word's literal meaning is to re sound implying a surface or receptive body that amplifies and alters the sound an interdependent relation and process occurring in between Seven kinds of resonance specific to design are detailed theoretically and illustrated with practical and historical examples These design strategies demonstrate the possibilities

resulting from shifting attention and resources from the longstanding preoccupation with fixed forms towards structuring and supporting dynamic interactive relationships between the built and the natural and between people and place Seamlessly combining architecture with cognitive science and neuroscience environmental and evolutionary psychology and social theory and anthropology in clear direct and engaging prose this book will be essential reading for all architecture students as well as those in these varied fields

Beyond the Brain Benoit Hardy-Vallée, Nicolas Payette, 2008 Cognitive science faces a major methodological and conceptual change since the 90 s Whereas the brain was traditionally conceived as being the only seat of intelligence many researches emphasize the entrenchment of the brain in body context and culture In 2006 a conference was held at the Université du Québec Montréal UQAM and allowed researchers from various fields to interact and discuss such issues Cognitio 2006 was an occasion for philosophers cognitive scientists and biologists to present the latest developments in their discipline and this book aims at providing a general overview of current research on embodied situated and distributed cognition

Architecture and Embodiment Harry Francis Mallgrave, 2013-06-26 In recent years we have seen a number of dramatic discoveries within the biological and related sciences Traditional arguments such as nature versus nurture are rapidly disappearing because of the realization that just as we are affecting our environments so too do these altered environments restructure our cognitive abilities and outlooks If the biological and technological breakthroughs are promising benefits such as extended life expectancies these same discoveries also have the potential to improve in significant ways the quality of our built environments This poses a compelling challenge to conventional architectural theory This is the first book to consider these new scientific and humanistic models in architectural terms Constructed as a series of five essays around the themes of beauty culture emotion the experience of architecture and artistic play this book draws upon a broad range of discussions taking place in philosophy psychology biology neuroscience and anthropology and in doing so questions what implications these discussions hold for architectural design Drawing upon a wealth of research Mallgrave argues that we should turn our focus away from the objectification of architecture treating design as the creation of objects and redirect it back to those for whom we design the people inhabiting our built environments

From Object to Experience Harry Francis Mallgrave, 2018-06-28 Harry Francis Mallgrave combines a history of ideas about architectural experience with the latest insights from the fields of neuroscience cognitive science and evolutionary biology to make a powerful argument about the nature and future of architectural design Today the sciences have granted us the tools to help us understand better than ever before the precise ways in which the built environment can affect the building user s individual experience Through an understanding of these tools architects should be able to become better designers prioritizing the experience of space the emotional and aesthetic responses and the sense of homeostatic well being of those who will occupy any designed environment In *From Object to Experience* Mallgrave goes further arguing that it should also be possible to build an effective new cultural ethos for architectural practice Drawing upon a range of humanistic and biological sources

and emphasizing the far reaching implications of new neuroscientific discoveries and models this book brings up to date insights and theoretical clarity to a position that was once considered revolutionary but is fast becoming accepted in architecture

The Philosopher's Index, 2008 Vols for 1969 include a section of abstracts

Neuroarchitecture Ian Ritchie, 2021-01-12

Architecture and Neuroscience Paul Carpenter, 2025-01-14 Discover how architecture can be more than aesthetics it can be a powerful tool to impact the brain and enhance your outcomes Architecture and Neuroscience Designing Spaces that Impact the Brain offers an in depth exploration of how physical environments influence our emotions productivity and mental well being With revealing case studies and practical strategies this work becomes an essential guide for architects builders and entrepreneurs who wish to incorporate neuroscience into their projects By applying these principles you will not only transform spaces but also elevate your career boosting your income and achieving a new level of success in the construction industry Dear readers in this book you will discover how the intersection between architecture and neuroscience not only transforms spaces but also enhances your capacity for innovation and success in the construction sector My goal is for you to apply this knowledge in practical ways to create environments that not only serve a function but also improve the lives of those who inhabit them I am convinced that by integrating these revolutionary ideas you can elevate the quality of your projects and consequently see a positive impact on your business growth and performance Let s join forces to design a more conscious and inspired future

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The Architect's Brain Harry Francis Mallgrave, 2010-01-19 The Architect s Brain Neuroscience Creativity and Architecture is the first book to consider the relationship between the neurosciences and architecture offering a compelling and provocative study in the field of architectural theory Explores various moments of architectural thought over the last 500 years as a cognitive manifestation of philosophical psychological and physiological theory Looks at architectural thought through the lens of the remarkable insights of contemporary neuroscience particularly as they have advanced within the last decade Demonstrates the neurological justification for some very timeless architectural ideas from the multisensory nature of the architectural experience to the essential relationship of ambiguity and metaphor to creative thinking

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