

BUILDING DYNAMICS:
EXPLORING ARCHITECTURE OF CHANGE

EDITED BY BRANKO KOLAREVIC & VERA PARLAC



Building Dynamics Exploring Architecture Of Change

Michael A. Arbib



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Building Dynamics Branko Kolarevic, Vera Parlac, 2015-06-12 Buildings are increasingly dynamic equipped with sensors actuators and controllers they self adjust in response to changes in the external and internal environments and patterns of use Building Dynamics asks how this change manifests itself and what it means for architecture as buildings weather programs change envelopes adapt interiors are reconfigured systems replaced Contributors including Chuck Hoberman Robert Kronenburg David Leatherbarrow Kas Oosterhuis Enric Ruiz Geli and many others explore the changes buildings undergo and the scale and speed at which these occur examining which changes are necessary useful desirable and possible The first book to offer a coherent comprehensive approach to this topic it draws together arguments previously only available in scattered form Featuring the latest technologies and design approaches used in contemporary practice the editors provide numerous examples of cutting edge work from leading designers and engineering firms working today An essential text for students taking design studio classes or courses in theory or technology at any level as well as professionals interested in the latest mechatronic technologies and design techniques

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Cybernetic Architectures Camilo Andrés Cifuentes Quin, 2021-07-29 For the past 50 years the advancements of technology have equipped architects with unique tools that have enabled the development of new computer mediated design methods fabrication techniques and architectural expressions Simultaneously in contemporary architecture new frameworks emerged that have radically redefined the traditional conceptions of design of the built environment and of the role of architects Cybernetic Architectures argues that such frameworks have been constructed in direct reference to cybernetic thinking a thought model that emerged concurrently with the origins of informatics and that embodies the main assumptions values and ideals underlying the development of computer science The book explains how the evolution of the computational perspective in architecture has been parallel to the construction of design issues in reference to the central ideas fostered by

the cybernetic model It unpacks and explains this crucial relationship in the work of digital architects between the use of information technology in design and the conception of architectural problems around an informational ontology This book will appeal to architecture students and scholars interested in understanding the recent transformations in the architectural landscape related to the advent of computer based design paradigms **The Routledge Companion to Smart Design**

Thinking in Architecture & Urbanism for a Sustainable, Living Planet Mitra Kanaani,2024-11-11 This comprehensive companion surveys intelligent design thinking in architecture and urbanism investigates multiple facets of smart approaches to design thinking that augment the potentials of user experiences as well as his her physical and mental interactions with the built environment Split into six paradigms this volume looks at the theoretical and historical background of smart design smart design methodologies and typologies smart materials smart design for extreme weather and climatic regions as well as climate change issues and side effects smart mobility and the role of digital technologies and simulations in architectural and urban design Often at odds with each other this volume places emphasis on smart design for various typologies and user groups emphasizing on advancements in form making and implementation of technology for healthy and sustainable living environments Written by emerging and established architects planners designers scientists and engineers from around the globe this will be an essential reference volume for architecture and urban design students and scholars as well as those in related fields interested in the implications various facets and futures of smart design **Sustainable Design for**

Uncertain Futures Joshua D. Lee,Joseph Murray,2025-09-09 Explore pivotal intersections and themes between strategies for buildings and cities to adapt to shifting circumstances Sustainable Design for Uncertain Futures introduces fourteen time based strategies in architecture through a series of dialogues between experts This format embraces a dynamic exploration of strategies ranging from Adaptive Reuse to Bio Design revealing how each one addresses forces of change and adds adaptive capacity to the built environment The book s structure invites readers to engage with these strategies on multiple levels Each chapter begins with a framing of the fundamentals providing context and key examples to situate the strategies in the wider field At the core of each chapter is a moderated dialogue that offers key insights into how these strategies work in practice and how they can be used in combination By presenting these strategies through dialogue the editors demonstrate the collaborative thinking needed to address growing uncertainty in the built environment and provide readers with an actionable framework of technical and management approaches The book s practical focus helps bridge the gap between theory and application making this edited volume an invaluable resource for both academics and practitioners Readers will find dialogues involving fifteen renowned experts in their respective fields Avi Friedman Naomi Keena Mass Customization Michael Fox Computationally Responsive Environments Bie Plevoets Adaptive Reuse John Dale Open Building Aki Ishida Metabolism Michelle Laboy Persistence Felix Heisel Circular Construction Jenni Minner Preservation Kim Trogal Repair Brad Guy Design for Disassembly Adaptability Sarah Wigglesworth Inclusive Design Irena Bauman Resilience Doris

Sung Smart Materials Mitchell Joachim Bio Design Sustainable Design for Uncertain Futures presents The fundamentals of each strategy along with a short summary of each with its affordances and challenges and a few key examples The editors theory of primary time signatures enabling readers to see and plan the combination of different time based strategies to increase building lifecycle coverage for adaptive capacity Critical insights from thought leaders across a wide spectrum of approaches to sustainability Academics practitioners and others interested in change in the built environment can use the strategies discussed in Sustainable Design for Uncertain Futures to develop architectural solutions that accommodate climate change shifting demographics new live work patterns and many other uncertainties **Biomimetic Architecture**

and Its Role in Developing Sustainable, Regenerative, and Livable Cities Mohsen Aboulnaga, Samaa E.

Helmy, 2022-09-01 This book focuses on understanding biomimetic architecture and its role as a sustainable design tool It presents the role of biomimicry in mitigation and adaptation to climate change and examines how biomimetic architecture can provide healthy solutions to limit the spread of COVID 19 in buildings and cities Coverage includes global examples of biomimetic approaches and buildings an evaluation of the performance of biomimicry applications in architecture to illustrate best practices and an exploration of how nature can offer inspiration in building design to conserve resources and save energy use as well as curb carbon emissions a reaffirmed goal of COP 26 and an outcome of Glasgow Climate Pact Finally the book presents guidelines to enhance urban areas and healthier spaces in buildings to meet COVID 19 social distance regulations and beyond Examines global applications of biomimicry in architecture Highlights the importance of biomimicry in driving livability in cities and buildings Explores the role of biomimetic architecture in mitigating climate change The line of argument developed is highly relevant to the present in addition to being original and pertinent to research on urban regeneration especially in regard to the exploration of the use of biomimicry architecture in response to changing urban demands Alessandra Battisti Ph D Professor of Architecture University of Rome La Sapienza *Advanced Materials in Smart*

Building Skins for Sustainability Julian Wang, Donglu Shi, Yehao Song, 2022-10-29 Conventional building skins are constructed as static structures upon the typical design conditions in terms of external climate and internal occupant activities This generates dissociation between the envelope structure and its environment With the emerging advanced materials such as chromic based materials spectrally selective coatings and transparent photovoltaic more dynamic and smarter building skins are now achievable and constructible This book updates readers on the key areas of smart building skins embodied in the novel advanced materials with unique structures and smart properties that enable multiple functions in energy efficiency solar harvesting and environmental greenness It synergistically integrates the topics and knowledge of material design and experimental studies theoretical analyses of building energy saving mechanisms and solar energy utilization and new design methodologies and processes taking advanced materials into account at different scales from nano to the macroscale

When Brains Meet Buildings Michael A. Arbib, 2021 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 analyzing the experience and design of architecture

Bio-Inspired Materials Ulisses Targino Bezerra, Heber Sivini Ferreira, Normando Perazzo Barbosa, 2019-04-16 Nature has provided opportunities for scientists to observe patterns in biomaterials which can be imitated when designing construction materials Materials designed with natural elements can be robust and environment friendly at the same time Advances in our understanding of biology and materials science coupled with the extensive observation of nature have stimulated the search for better accommodation compression of materials and the higher organization reduction of mechanical stress in man made structures Bio Inspired Materials is a collection of topics that explore frontiers in 3 sections of bio inspired design i bionics design ii bio inspired construction and iii bio materials Chapters in each section address the most recent advances in our knowledge about the desired and expected relationship between humans and nature and its use in bio inspired buildings Readers will also be introduced to new concepts relevant to bionics biomimicry and biomimetics Section i presents research concepts based on information gained from the direct observation of nature and its applications for human living Section ii is devoted to artificial construction of the Earth This section addresses issues on geopolymers materials that resemble the structure of soils and natural rocks procedures that reduce damage caused by earthquakes in natural construction the development of products from vegetable resins and construction principles using bamboo The last section takes a look into the future towards the improvement of human living conditions Bio Inspired Materials offers readers having a background in architecture civil engineering and systems biology a new perspective about sustainable building which is a key part of addressing the environmental concerns of current times

Mass-Customised Cities Tom Verebes, 2015-12-07 What happens when computational design and fabrication technologies ramp up to the urban scale Though these innovative production processes are currently now largely limited to small scale design projects what will happen when they are applied to the vast scale of the 21st century world city Could new technologies enable an important shift away from mass production to increasingly bespoke and custom designed systems The introduction of standardisation and mass production processes in the 20th century saw the industrial city take on a repetitious and homogeneous quality through the duplication of component parts Today non standard bespoke systems hold out the promise of realising a distinctive urbanism characterized by the differentiation of serial production and the variation of simple parts that should lead to a more complex and compelling whole Given the current pace and rate of urbanisation in Asia the mass customization of the city is set to have imminent and far reaching practical consequences for the rest of the developing and developed world

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