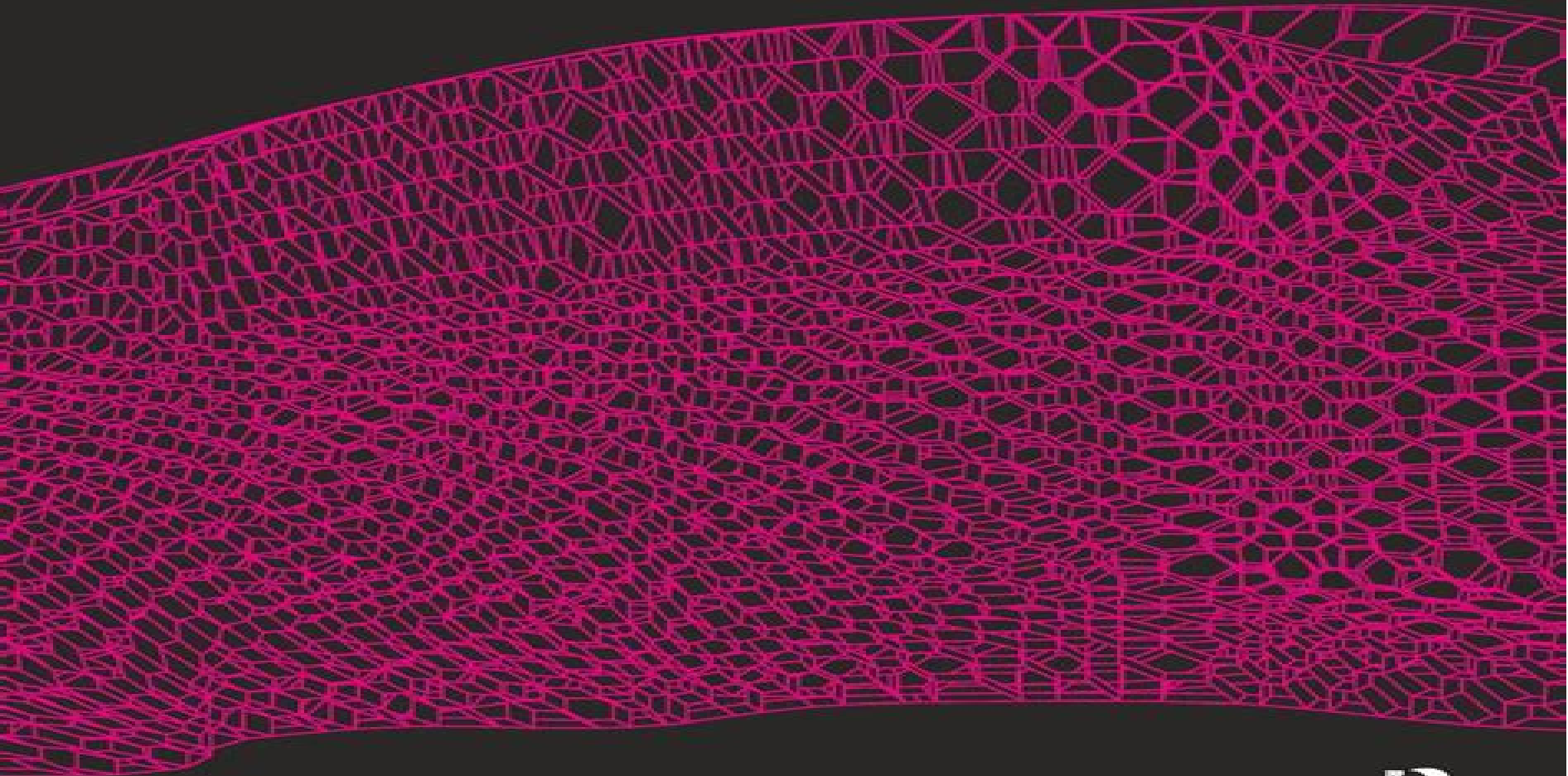


EMERGENT TECHNOLOGIES AND DESIGN

Towards a biological paradigm for architecture



Michael Hensel, Achim Menges and Michael Weinstock



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Emergent Technologies and Design Michael Hensel, Achim Menges, Michael Weinstock, 2013-09-13 Emergence the process by which new and coherent structures patterns and properties emerge from within complex systems Traditional architecture starts from the premise that architectural structures are singular and fixed and however well integrated are separate from their environment and context Emergence requires that the opposite is true that those structures are complex energy and material systems that have a lifespan exist as part of an environment of other active systems and develop in an evolutionary way This book based on the authors internationally renowned Emergent Technologies and Design course at the Architectural Association in London introduces a new approach to the practice of architecture The authors use essays and projects to demonstrate the interrelationship of concepts such as emergence and self organisation with the latest technologies in design manufacturing and construction With projects from their course and critiques and commentary from some of the world s leading design theorists and practitioners the authors of Emergent Technologies and Design have introduced a radical new way of understanding the way in which architecture is conceived designed and produced

Architectural Graphics Manuel A. Ródenas-López, José Calvo-López, Macarena Salcedo-Galera, 2022-05-03 This book reports on several advances in architectural graphics with a special emphasis on education training and research It gathers a selection of contributions to the 19th International Conference on Graphic Design in Architecture EGA 2022 held on June 2 4 2022 in Cartagena Spain with the motto Beyond drawings The use of architectural graphics

Architectural and Urban Reflections after Deleuze and Guattari Constantin V. Boundas, Vana Tentokali, 2017-12-15 The post humanist movement which currently traverses various disciplines in the arts and humanities as well as the role that the thought of Deleuze and Guattari has had in the course of this movement has given rise to new practices in architecture and urban theory This interdisciplinary volume brings together architects urban designers and planners and asks them to reflect and report on the built place and the city to come in the wake of Deleuze and Guattari

Digital Processes Moritz Hauschild, Rüdiger Karzel, 2012-12-10 these days a computer is as much a part of every household s standard equipment as a refrigerator and yet the explosion of computer technology in the last several decades has transformed the daily life of every member of society far more than even utopians would ever have allowed themselves to dream No wonder then that from design to production architecture too is becoming more and more subject to digital influences The range of those influences stretches from the classical computer programs used in design and presentation to media supported design processes all the way to computerized production techniques to say nothing of industrialized bricklayer robots From measurement to planning and production architecture is the product of a closely coordinated digital process chain What influence do digital design digital design and production methods have on contemporary architecture How are these methods changing architecture and the way it is created Where does the potential of digital media for architecture lie What are the areas in which every individual

firm can begin to use them What are the advantages of working electronically How and at what cost can these methods be integrated into the day to day work of the professional architect This publication offers answers to these and many other questions on all aspects of the digital design and construction process **Persistent Modelling** Phil Ayres,2012-06-25 Drawing upon both historical and contemporary perspectives this book examines the relationship between representation and the represented through the notion of Persistent Modelling Featuring contributions from some of the world s most advanced thinkers on this subject this book makes essential reading for anyone considering new ways of thinking about architecture *Frontiers of Science and Technology* Gabriela Celani,Olfa Kanoun,2017-10-10 Sponsored by the Alexander von Humboldt Stiftung the Bragfost Confernce brings together about 60 outstanding German and Brazilian Scientists to discuss most topical issues in the field of electrical engineering energy supply as well as sociological impact of technology This book presents the most relevant contributions in extended and revised form *Architectural Theory of Modernism* Ute Poerschke,2016-04-20 Architectural Theory of Modernism presents an overview of the discourse on function form concepts from the beginnings in the eighteenth century to its peak in High Modernism Functionalist thinking and its postmodern criticism during the second half of the twentieth century is explored as well as today s functionalism in the context of systems theory sustainability digital design and the information society The book covers among others the theories of Carlo Lodoli Gottfried Semper Eug ne Emmanuel Viollet le Duc Louis Sullivan Frank Lloyd Wright Hannes Meyer Adolf Behne CIAM Jane Jacobs Robert Venturi and Denise Scott Brown Charles Jencks William Mitchell and Manuel Castells URBAN CORPORIS. The City and the Skin Mickeal Milocco Borlini,Lelio di Loreto,Carlalberto Amadori,2020-01-30 In this Urban Corporis volume The city and the skin we asked the authors to read define and interpret the role of the skin as a facade as a protection as a compositional image of urban revelation Without formal restrictions without ethical preconceptions the skin as part of the building designed to mediate the relationship The architectural skin understood as the technological system of delimitation between architectural space and unbuilt environment can be analyzed as a boundary system between interior and exterior the most evident expression of the identity of an artifact In this dual role of border and interface receptive as active the skin of an architecture seen also through art is charged with a double value an element of covering and protection and at the same time a tool of relationship and interface in fact towards the external world *Architectural Record* , Material Computation Achim Menges,2012-04-02 The production of architecture both intellectually and physically is on the brink of a fundamental change Computational design enables architects to integrate ever more multifaceted and complex design information while the industrial logics of conventional building construction are eroding rapidly in a context of increasingly ubiquitous computer controlled manufacturing and fabrication A novel convergence of computation and materialisation is about to emerge bringing the virtual process of design and the physical realisation of architecture much closer together more so than ever before Computation provides a powerful agency for both informing the design process through specific material

behaviour and characteristics and in turn informing the organisation of matter and material across multiple scales based on feedback from the environment Computational design and integrated materialisation processes allow for uncovering the inherent morphogenetic potential of materials and thus are opening up a largely uncharted field of possibilities for the way the built environment in the 21st century is conceived and produced In order to effectively introduce and outline the enabling power of computational design along with its inherent relationship to a biological paradigm this publication looks at formation and materialisation in nature integrative computational design and engineering and manufacturing integration Architectural contributors include Cristiano Cecatto Neri Oxman Skylar Tibbits and Michael Weinstock A scientific perspective by Philip Ball and J Scott Turner Features Buro Happold s SMART group DiniTech Foster Partners Specialist Modelling Group the Freeform Construction group and Stuttgart University s Institute for Computational Design

Agronomy Abstracts ,1992 *Proceedings of the 1995 IEEE IECON: Signal processing and control, Robotics vision and sensors, Emerging technologies, and Factory automation* ,1995 **Masters Abstracts International** ,1989

Resources in Education ,1996 *Abstracts of the Annual Meeting -- American Anthropological Association* American Anthropological Association,2002 [The Rise of Biodesign](#) Mary Polites,2019-06-17 To provide insight to the process which engages nature and design this collection of work shines light on the educational methods currently being explored in China s top institutions Bio inspired design is both simple and complex Simple because it provides an easy reference to discuss ideas through a means we all can relate to and become inspired by the natural world The topic engages a spectrum of professionals from environmental enthusiasts to design professionals and scientists The complexity arises when we need to understand beyond what we see and understand how nature works At many levels we are still exploring how systems are inter related and to decipher these relationships we have to look beyond the idealized inspiration Throughout the world research and development that focuses on bio inspiration has been steadily increasing and is expected to continue to do so for the next two decades Currently China is one of the leaders in scholarly articles focusing on bio inspiration Although this topic is developing at an impressive rate much of the public awareness of bio inspiration and similar areas of research such as biomimetics and biomimicry is relatively unknown Therefore to provide insight into this process this collection of work shines light on the methods currently being explored in China s top institutions *Lotus International* ,2001 *Techniques and Technologies in Morphogenetic Design* ,2006 Les responsables de ce num ro sont les directeurs du Emergence Design Group et du master New emergent technologies and design de l Architectural association AA de Londres Application l architecture des recherches sur la morphog n se et les organismes auto organis s *Living Construction* Martyn Dade-Robertson,2020-10-28 Modern biotechnologies give us unprecedented control of the fundamental building blocks of life For designers across a range of disciplines emerging fields such as synthetic biology offer the promise of new sustainable materials and structures which may be grown are self assembling self healing and adaptable to change While there is a

thriving speculative discourse on the future of design in the age of biotechnology there are few realized design applications This book the first in the Bio Design series acts as a bridge between design speculation and scientific reality and between contemporary design thinking in areas such as architecture product design and fashion design and the traditional engineering approaches which currently dominate biotechnologies Filled with real examples Living Construction reveals how living cells construct and transform materials through methods of fabrication and assembly at multiple scales and how designers can utilize these processes Emergence ,2004-07-02 Emergence is an important new concept in artificial intelligence information theory digital technology economics climate studies material science and biometric engineering It is a development which is set to inform not only the construction of buildings but also the composition of new materials As a new science coupled with material and technological innovations it is set to enter architecture into a new phase of transition This book presents an account of related developments in artificial intelligence and evolutionary computation and shows how these developments are being incorporated into new architectures This book marks the introduction of a new topic in design Includes high quality CAD images Accompanies a travelling exhibition showing in Oslo and Copenhagen Includes interviews with Frei Otto and a review of the Advanced Geometry Group at Ove Arup and Partners

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