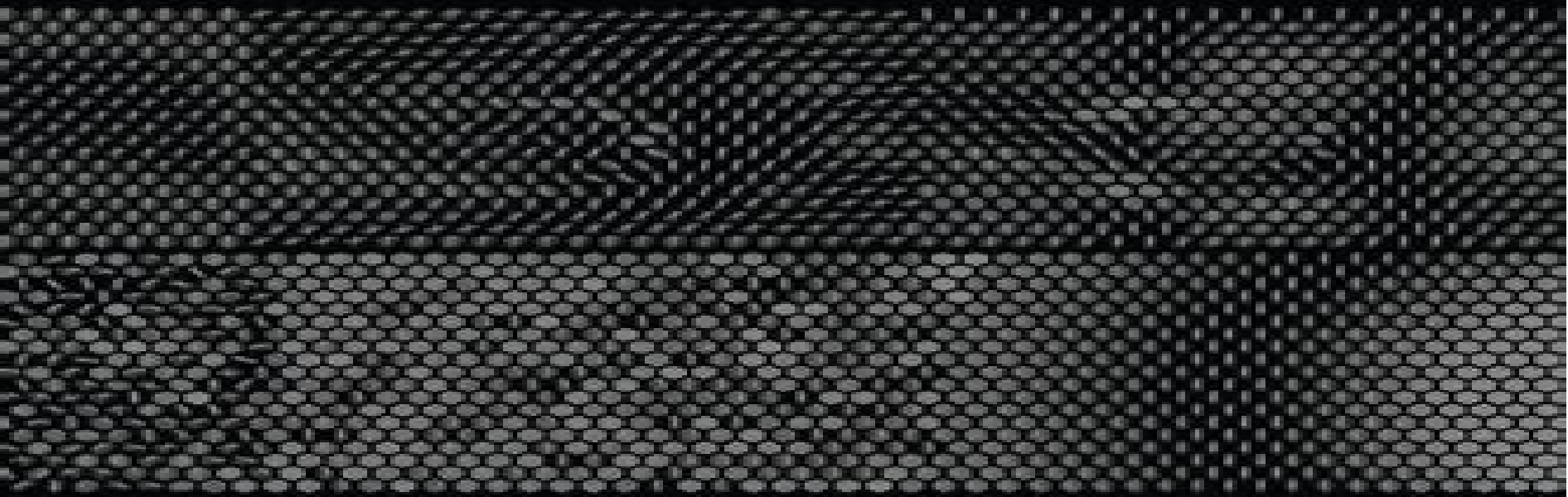


# DESIGNING KINETICS FOR ARCHITECTURAL FACADES STATE CHANGE



JULES MOLONEY



# Designing Kinetics For Architectural Facades State Change

**Fabio Bianconi, Marco Filippucci**



## **Designing Kinetics For Architectural Facades State Change:**

**Designing Kinetics for Architectural Facades** Jules Moloney, 2011-06-14 Architectural facades now have the potential to be literally kinetic through automated sunscreens and a range of animated surfaces This book explores the aesthetic potential of these new types of moving facades Critique of theory and practice in architecture is combined here with ideas from kinetic art of the 1960 s From this background the basic principles of kinetics are defined and are used to generate experimental computer animations By classifying the animations a theory of kinetic form called state change is developed This design research provides a unique and timely resource for those interested in the capacity of kinetics to enliven the public face of architecture Extra material including animations can be seen at [www.kineticarch.net/statechange](http://www.kineticarch.net/statechange)

*Computer-Aided Architectural Design: The Next City - New Technologies and the Future of the Built Environment* Gabriela Celani, David Moreno Sperling, Juarez Moara Santos Franco, 2015-06-15 This book constitutes the refereed proceedings of the 16th International Conference on Computer Aided Architectural Design Futures CAAD Futures 2015 held in S o 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 [Building Automation and Digital Technologies](#) Shahryar Habibi, 2022-03-17 Building automation systems and digital technologies are highly relevant for the environmental and energy performance of buildings However a clear gap remains between architectural engineering and the use of such technologies Building Automation and Digital Technologies shows how to assimilate automation and digital technologies into making buildings smarter and more environmentally sustainable This book shows why architects need smart and digital systems in building design and construction and promotes innovative technological tools for improving sustainability It focuses on the development of automated environmental conditions and how new technology informs architectural engineering The book also provides new evidence on the impact of building automation systems and digital technologies such as the Internet of Things artificial intelligence and information and communication technology for developing a performance based approach to the environmental sustainability of buildings and provides a key reference for architects on how digital technology can inform their practice Its four chapters cover developing strategies for improving sustainable and smart buildings architectural practice and construction technology creativity and innovation in building automation systems and the use phase of buildings Building Automation and Digital Technologies meets a critical need for a sustainable and smart built environment from an architectural perspective providing an important reference to architects and professionals in related fields by demonstrating the assimilation of the latest information and automation technologies Puts forward an architectural perspective on the design and construction of smart sustainable buildings Presents the use of digital technologies for design and construction

Bridges the gap between architectural engineering and the use of automation and digital technology Considers the development of automated environmental conditions and new technology      *Executive Design of the Façade Systems* Ingrid Paoletti, Massimiliano Natri, 2023-09-25 The book examines the typological and technological constitution of the principal advanced fa ade systems in the contemporary design and experimental scenario proposing itself as a knowledge and operational tool currently lacking in the technical literature of the sector at an international level It considers the field of advanced fa ade systems in a scientific way constituting a support for the study and the executive design The book investigates in detail in an analytical form the constitution of the components on a typological and geometrical functional and constructive level on the basis of the documents and knowledges acquired from the essential contemporary production and construction references At the same time the book is configured in a handbook form as a reference for understanding and application with respect to traditional and complex fa ade systems For each main type of fa ade the book provides explanations and scientific information for investigating and designing the advanced fa ades according to the characteristics of the mullions and transoms fa ade system stick system of the structural sealant glazing fa ade system of the unit fa ade system of the suspended fa ade system and of the double skin fa ade system      **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      **A Companion to Contemporary Design since 1945** Anne Massey, 2019-03-26 A critical overview of contemporary design and its place within the broader context of art history A Companion to Contemporary Design since 1945 introduces readers to a collection of specially commissioned essays exploring the complex areas of design that emerged through the latter half of the twentieth century design history design methods design studies and more recently design thinking The book delivers a thoughtful overview of all design disciplines and also strives to stimulate inter disciplinary debate and examine unconsidered convergences among design applications in different fields By offering a new perspective on design the articles assembled here present a challenging account of the boundaries between design history and its cognate disciplines especially art history The volume comprises five sections Time Place Space Objects and Audiences that discuss environments for design and how

we interact with designed objects and spaces Notable features include 24 new essays reflecting the current state of design history and theory and examining developments on a global basis Contributions by eminent scholars and practitioners from around the globe Enriched throughout with illustrations A Companion to Contemporary Design since 1945 provides a new and thought provoking revision of our conception and understanding of contemporary design that will be essential reading for students at both undergraduate and graduate levels as well as researchers and teachers working in design history theory and practice and in related fields

**Global Design and Local Materialization** Jianlong Zhang, Chengyu Sun, 2013-06-03 This book constitutes the refereed proceedings of the 15th International Conference on Computer Aided Architectural Design Futures CAAD Futures 2013 held in Shanghai China in July 2013 The 35 revised full papers presented were carefully reviewed and selected from 78 submissions The papers are organized in topical sections on digital aids to design creativity concepts and strategies digital fabrication and local materialization human computer interaction user participation and collaborative design modeling and simulation shape and form studies

**Design of Autoreaction** Sandra G.L. Persiani, 2020-08-08 This book provides the readers with a timely guide to the application and integration of interdisciplinary principles from the fields of kinetic design mechanics energy and materials engineering in the fields of architecture and engineering design It explores the potential integration of autoreactive solutions unpowered kinetic systems triggered by changes in the surrounding latent energy conditions within man made artefacts with added functionality and efficiency Related interdisciplinary parameters are explored discussing morphology mechanics energy and materials in detail Each chapter examines the implications of autoreactivity in one specific field providing a general overview and listing relevant motion design parameters and identifying for the reader those aspects that have a high potential to open up for new design directions The book guides readers through a highly multidisciplinary field of design offering an extraordinary resource of knowledge for professional architects engineers and designers as well as for university teachers researchers and students Interdisciplinary research is presented throughout the book as a powerful resource that can serve architecture and design and a learning method to rethink innovative optimal and sustainable solutions

*Material Balance* Ingrid Paoletti, Massimiliano Nistri, 2020-09-30 This book argues that we are living in an era of deep mutation and the anthropocentric model no longer fits our way of living and behaving on Earth Climate change is upsetting our relationship with nature and the environment while artificial intelligence scenarios undermine the foundations of human life As the pressure to re align based on new modes of living and consuming increases the first priority should be to address the way we imagine design produce and construct our built environment The highly original book explores how the relation between design technology and material cultures can underpin and drive this change It discusses the need for a new material balance to develop our design practice not only from an energy and environmental perspective but also from a physiological cultural and semantic one in order to re balance the impact of material design on society This publication is an excellent guide to

understanding in detail the theoretical framing of several crucial topics in material balance design from computational knitting to material agency and from new acoustic ecology to future fa ade technologies bio based design and ultimately non anthropocentric habitats offering insights into preferable future scenarios

**Energy Materials Science and Engineering: From New Devices to AI Power Systems** Donglu Shi, 2025-07-12 This book explores cutting edge advancements in sustainable energy It is written by leading experts in the field covering topics such as advanced energy materials including organic solar cells and manganese based batteries alongside breakthroughs in energy conversion storage and AI applications It demonstrates how superconducting power transmission and AI algorithms are revolutionizing power systems and explores strategies for integrating energy solutions into sustainable urban infrastructure The book equips researchers engineers and policymakers with the knowledge to navigate the complexities of modern energy challenges

*exlibris* Giovanni Corbellini, 2022-05-18 Architects write a lot especially now when conceptual aspects have become central in the advanced reflections and narrative forms increasingly intersect the quest of design practices far an ultimate legitimation In the growing mass of the publishing offer these keywords try to highlight recurrent issues tracking synthetic paths of orientation between different critical positions with particular attention to what happens in the neighbouring fields of the arts and sciences

Space Tessellations Werner Van Hoeydonck, Christian Kern, Eva Sommeregger, 2022-03-07 Tackling a topic that has particular appeal in the age of digital design this well founded introduction to the subject of parquet deformation fills a gap These subtle intricate geometric transformations best known through the Metamorphosis series by M C Escher were introduced to design curricula by American professor William S Huff in the 1960s The book brings together scholarly articles by the most important authors in the field and material collected in the archives of the Ulm School of Design in Germany juxtaposed with extensive illustrations of two and three dimensional works created at the Vienna University of Technology Written for anyone interested in the fields of design and geometry this book aims to inform and inspire

Designing Objects in Motion Kensho Miyoshi, 2020-11-23 The movement of designed objects is not just something purely functional but also triggers a wide range of sensations A curtain swaying gently in the wind can cause the onlooker to feel easy and relaxed as if it was he or she who is floating in the air This imagined projection caused by the perception of moving objects is called kinesthetic empathy In this study which followed on from a dissertation at the School of Design Research in London the author investigates the esthetics of movement by documenting his own design based learning and research process in terms of research through design using the experimental cooperation with puppet players as an example He thereby creates a framework that allows designers to observe the esthetics of objects in motion as a trigger of feelings

**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

### **Architecture and Urbanism: A Smart Outlook**

Shaimaa Kamel,Hanan Sabry,Ghada F. Hassan,Mostafa Refat,Abeer Elshater,Ahmed S. Abd Elrahman,Doaa K.

Hassan,Rowaida Rashed,2020-11-02 This proceedings addresses the challenges of urbanization that gravely affect the world s ecosystems To become efficiently sustainable and regenerative buildings and cities need to adopt smart solutions This book discusses innovations of the built environment while depicting how such practices can transform future buildings and urban areas into places of higher value and quality The book aims to examine the interrelationship between people nature and technology which is essential in pursuing smart environments that optimize human wellbeing motivation and vitality as well as promoting cohesive and inclusive societies Urban Sociology Community Involvement Place making and Cultural Continuity Environmental Psychology Smart living Just City The book presents exemplary practical experiences that reflect smart strategies technologies and innovations by established and emerging professionals provides a forum of real life discourse The primary audience for the work will be from the fields of architecture urban planning and built environment systems including multi disciplinary academics as well as professionals

**ICoRD'13** Amaresh Chakrabarti,Raghu V. Prakash,2013-01-12 This book showcases over 100 cutting edge research papers from the 4th International Conference on Research into Design ICoRD 13 the largest in India in this area written by eminent researchers from over 20 countries on the design process methods and tools for supporting global product development GPD The special features of the book are the variety of insights into the GPD process and the host of methods and tools at the cutting edge of all major areas of design research for its support The main benefit of this book for researchers in engineering design and GPD are access to the latest quality research in this area for practitioners and educators it is exposure to an empirically validated suite of methods and tools that can be taught and practiced

Paravartan : an enquiry on reflex phenomenon in responsive, adaptive and intelligent behaviours of reflexive spatial system archetypes Parantap Bhatt,2012-07-07 This book is an analytical enquiry of reflex phenomenon in spatial components of a reflexive space It is a quest in search for meaning of building a reflexive spatial system The study

analyses the ways in which emergent technologies can transform built spaces from being mere mute objects in an environment to elevate them into adaptive experiential spaces for the people who use it It is envisioned to briefly and clearly understand the forces in a responsive built environments in the digital age that manifest itself in various forms of spatial flexibility Here it specifically intends to address the issues of a reflexive spaces and how such spaces can transform the experience of a user through technological advancements The document also tends to explain how reflexive spaces are built and maintained to follow different patterns of behaviour in a singular space

### **Biomimetics of Motion** Sandra

Persiani, 2018-06-13 This book provides readers with a timely guide to the application of biomimetic principles in architecture and engineering design and describes various aspects of motion in living systems Geometric mechanical and rhythmic parameters are listed and illustrated using examples from flora and fauna and contextualized within an integrated mapping of biomechanical combinations that have proved their success in the course of evolution For designers the schemes identify those aspects that have a high probability of being efficiently combined paving the way for new solutions and offering a method of evolutionary problem solving The book guides readers through the field of nature inspired design offering an extraordinary resource for professional architects engineers and designers as well as for researchers and students Throughout the book natural evolution is approached as a powerful resource that can enrich architecture and design by providing innovative optimal and sustainable solutions

### *No Matter: Theories and Practices of the Ephemeral in*

*Architecture* Anastasia Karandinou, 2017-05-15 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     Digital Wood Design Fabio Bianconi,Marco Filippucci,2019-02-24 This book explores various digital representation strategies that could change the future of wooden architectures by blending tradition and innovation Composed of 61 chapters written by 153 authors hailing from 5 continents 24 countries and 69 research centers it addresses advanced digital modeling with a particular focus on solutions involving generative models and dynamic value inherent to the relation between knowing how to draw and how to build Thanks to the potential of computing areas like parametric design and digital manufacturing are opening exciting new avenues for the future of construction The book s chapters are divided into five sections that connect digital wood design to integrated approaches and generative design to model synthesis and morphological comprehension to lessons learned from nature and material explorations to constructive wisdom and implementation related challenges and to parametric transfigurations and morphological optimizations

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