

Postparametric Automation In Design And Construction Building Technology

Kinetic Architecture Charles Linn 2014-01-17 A shift in the architecture industry's focus in the last 20 years toward ecological concerns, long-term value, and user comfort has coincided with significant new developments in digital controls, actuators, shading typologies, building physics simulation capability, and material performance. This collision has afforded architects an expanded set of opportunities to create architecture that can respond directly to environmental conditions, resulting in innovative façade designs that quickly become landmarks for their cities. Authors Russell Fortmeyer and Charles Linn trace the historical development of active façades in modern architecture, and reveal how contemporary architects and consultants design and test these systems.

Printing Architecture Ronald Rael 2018-05-22 Although 3D printing promises a revolution in many industries, primarily industrial manufacturing, nowhere are the possibilities greater than in the field of product design and modular architecture. Ronald Rael and Virginia San Fratello, of the cutting-edge San Francisco-based design firm Emerging Objects, have developed remarkable techniques for "printing" from a wide variety of powders, including sawdust, clay, cement, rubber, concrete, salt, and even coffee grounds, opening an entire realm of material, phenomenological, and ecological possibilities to designers. In addition to case studies and illustrations of their own work, Rael and San Fratello offer guidance for sourcing alternative materials, specific recipes for mixing compounds, and step-by-step instructions for conducting bench tests and setting parameters for material testing, to help readers to understand the process of developing powder-based materials and their unique qualities.

Building the Inclusive City Nilson Ariel Espino 2015-03-24 Urban segregation is one of the main challenges facing urban development around the globe. The usual outcome of many urban development patterns is an unequal social geography, with the urban poor living in large clusters that are remote, isolated, dangerous or unhealthy. The result is inequality in a number of dimensions of urban life, from deficient urban access, services or infrastructure to social isolation, neighbourhood violence, and lack of economic opportunity. This book brings together debates on ethnic and economic segregation, combining theory and practical solutions to create a guide for those trying to understand and address urban segregation in any part of the world, and integrate ameliorating policies to contemporary urban development agendas.

Why Materials Matter Seetal Solanki 2018-11-06 This visually stunning investigation of natural and man-made materials will change the way you look at the world around you, while offering hope for the future of our planet. What does it mean to live in a material world, and how do materials of the past and present hold the keys to our future? This book tackles these questions by focusing on various issues that human beings face and by discussing potential materials-related solutions. Through the lens of intriguing projects by designers, artists, makers, and scientists, it presents a colorful panoply of ideas, technologies, and creative efforts that focus on the earth's most basic elements, while also showing how these elements can be transformed into entirely new materials. It explores, for example, how ancient practices such as dyeing fabric and making glue may hold the secret to renewable and earth-friendly consumer products, as well as how recycling plastics can tackle food waste, and how a type of light metal being developed may one day make air travel less fuel-reliant. This book also investigates the potential of the digital experience, suggesting how this most ephemeral type of matter can be used to improve our world. Eye-catching and provocative, *Why Materials Matter* serves as both a stimulating catalog of possibilities and a timely manifesto on how to consume, manufacture, and design for a better future.

Mapping Controversies in Architecture Albena Yaneva 2016-05-13 The book tackles a number of

challenging questions: How can we conceptualize architectural objects and practices without falling into the divides architecture/society, nature/culture, materiality/meaning? How can we prevent these abstractions from continuing to blind architectural theory? What is the alternative to critical architecture? Mapping controversies is a research method and teaching philosophy that allows divides to be crossed. It offers a new methodology for following debates surrounding contested urban knowledge. Engaging in explorations of on-going and recent controversies and re-visiting some well-known debates, the analysis foregrounds, traces and maps the changing sets of positions triggered by design: the 2012 Olympics stadium in London, the Welsh parliament in Cardiff, the Heathrow airport runway extension, the Sydney Opera House, the Eiffel Tower. By mobilizing digital technologies and new computational design techniques we are able to visualize the variety of factors that impinge on design and track actors' trajectories, changing groupings, concerns and modalities of action. The book places architecture at the intersection of the human and the nonhuman, the particular and the general. It allows its networks to be re-established and to run between local and global, social and technical. Mapping controversies can be extrapolated to a wide range of complex phenomena of hybrid nature.

Neri Oxman: Material Ecology Paola Antonelli 2020-03-24 Throughout her 20-year career, Neri Oxman has invented not only new ideas for materials, buildings and construction processes, but also new frameworks for interdisciplinary and interspecies collaborations. She coined the term 'material ecology' to describe her process of producing techniques and objects informed by the structural, systemic and aesthetic wisdom of nature. Groundbreaking for its solid technological and scientific basis, its rigorous and daring experimentation, its visionary philosophy and its unquestionable attention to formal elegance, Oxman's work operates at the intersection of biology, engineering, architecture and artistic design, material science and computer science. This book, designed by Irma Boom and published to accompany a midcareer retrospective of Oxman's work, highlights the interdisciplinary nature of the designer's practice. It demonstrates how Oxman's contributions allow us to question and redefine the idea of modernism—a concept in constant evolution—and of organic design. Some of the projects featured in the book and exhibition include the Silk Pavilion, which harnesses silkworms' ability to generate a 3-D cocoon out of a single thread silk in order to create architectural constructions; Aguahoja, a water-based fabrication platform that prints structures made out of different biopolymers; and Glass, an additive manufacturing technology for 3-D printing optically transparent glass structures at architectural dimensions. Exhibition: MoMA, New York, USA (22.02-25.05.2020).

Computational and Manufacturing Strategies Andrea Quartara 2018-08-11 This book highlights computationally enabled and digitally fabricated strategies used in the design of a series of full-size wooden structures. It introduces theoretical foundations and then focuses on the possibilities that have emerged as a result of the material-aware processes. The case studies expound wood as one of the most suitable materials to experience the seamless framework introduced with the digital design-to-construction chain. Two main aspects of the pavilions constructed, developed in various international academic groups, are considered. On one hand the case studies explore tolerances of raw and engineered material intertwined with machine processing; they also address material enhancement through strip applications in timber construction. In addition, the structures are examined in the light of an extensible designing path, which acts as an interoperable procedure, bridging the virtual and the real.

Floor plan atlas, housing Friederike Schneider 1997 Der Entwurfsatlas für den Wohnungsbau stellt Bauprojekte aus 50 Jahren vor: mit Grundrissen in einheitlichem Maßstab (1:200) und Datensteckbriefen. Im Mittelpunkt stehen dabei die Grundriss-Idee und die Besonderheit des Wohnungsgrundrisses, die in kurzen, prägnanten Projekttexten anschaulich erklärt werden. Zusätzliche Grundrissdiagramme helfen, die Grundriss-Idee noch schneller zu erfassen. (Quelle: Buchhandel.de).

The Framing of Sacred Space Jelena Bogdanovic 2017 Revised and expanded version of the author's thesis (doctoral--Princeton University, 2008) under the title: Canopies: the framing of sacred space

in the Byzantine ecclesiastical tradition.

Tensegrity Systems Robert E. Skelton 2009-06-04 This book discusses analytical tools for designing energy efficient and lightweight structures that embody the concept of tensegrity. The book provides both static and dynamic analysis of special tensegrity structural concepts, which are motivated by biological material architecture. This is the first book written to attempt to integrate structure and control design.

Digital Wood Design Fabio Bianconi 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.

Introducing Architectural Theory Korydon Smith 2013-05-20 This is the most accessible architectural theory book that exists. Korydon Smith presents each common architectural subject - such as tectonics, use, and site - as though it were a conversation across history between theorists by providing you with the original text, a reflective text, and a philosophical text. He also introduces each chapter by highlighting key ideas and asking you a set of reflective questions so that you can hone your own theory, which is essential to both your success in the studio and your adaptability in the profession. These primary source texts, which are central to your understanding of the discipline, were written by such architects as Le Corbusier, Robert Venturi, and Adrian Forty. The appendices also have guides to aid your reading comprehension; to help you write descriptively, analytically, and disputationally; and to show you citation styles and how to do library-based research. More than any other architectural theory book about the great thinkers, *Introducing Architectural Theory* teaches you to think as well.

Handbook of Research on Visual Computing and Emerging Geometrical Design Tools

Amoruso, Giuseppe 2016-04-11 Visual computing and descriptive geometry are multidisciplinary fields addressing the handling of images, 3D models, and other computer graphics. These ideas are experiencing a revival due to emergent technologies and applications available to developers. Based in traditional forms of design and architecture, these fields are currently experiencing a bounty of new research based on old principles. The *Handbook of Research on Visual Computing and Emerging Geometrical Design Tools* seeks to add to this knowledge base by considering these technologies from a designer's perspective rather than reiterating the principles of computer science. It combines aspects of geometry and representation with emerging tools for CAD, generation, and visualization while addressing the digital heritage of such fields. This book is an invaluable resource for developers, students of both graphic and computer-generated design, researchers, and designers.

Robotic Building Mollie Claypool 2019 The use of robots in architecture is already commonplace: robots automate processes that were previously done manually. Complex shapes are created with the help of 3D printing while autonomous swarms of robots construct complex buildings. How does the use of robots affect the resulting structures; how does it affect the thinking of architects who work with robots? *Robotic Building* answers these questions with several practical examples. A final chapter explores the idea of architect as robot, the fully-automated home and similar concepts in which the robot merges with its environment and becomes part of our experience.

Construction Digitalisation Douglas Aghimien 2021-07-25 This book explores construction digitalisation, particularly in developing countries. The book conceptualises a digitalisation capability maturity model that will enable construction organisations to self-assess and benchmark

their digital capabilities in their quest for digital transformation. Digitalisation offers a significant solution to the age-long problems of the construction industry. Research shows that when construction organisations transform from a traditional service delivery approach to a more digitalised approach, significant improvement in project delivery and better competitive advantage for these organisations will be attained. The attainment of these benefits is evident in developed countries where the digitalisation of construction activities continues apace. Unfortunately, the story is not the same for construction organisations in developing economies. While some organisations might be willing to be digitally transformed, most have no clue how to go about it. To this end, this book provides guidelines for construction organisations seeking to transform their entities digitally. Its content is a valuable read for construction company owners as it provides a model which they can use in the digitalisation of their activities. Also, regulatory bodies in the construction industry can adopt the capabilities identified in the book as essential prerequisites for their members. Furthermore, the book serves as excellent theoretical background reading for management researchers seeking to expand their knowledge on the digitalisation of the construction industry and other associated industries.

Robotic Systems: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources 2020-01-03 Through expanded intelligence, the use of robotics has fundamentally transformed a variety of fields, including manufacturing, aerospace, medicine, social services, and agriculture. Continued research on robotic design is critical to solving various dynamic obstacles individuals, enterprises, and humanity at large face on a daily basis. *Robotic Systems: Concepts, Methodologies, Tools, and Applications* is a vital reference source that delves into the current issues, methodologies, and trends relating to advanced robotic technology in the modern world. Highlighting a range of topics such as mechatronics, cybernetics, and human-computer interaction, this multi-volume book is ideally designed for robotics engineers, mechanical engineers, robotics technicians, operators, software engineers, designers, programmers, industry professionals, researchers, students, academicians, and computer practitioners seeking current research on developing innovative ideas for intelligent and autonomous robotics systems.

City Networks Athanasia Karakitsiou 2017-12-05 Sustainable development within urban and rural areas, transportation systems, logistics, supply chain management, urban health, social services, and architectural design are taken into consideration in the cohesive network models provided in this book. The ideas, methods, and models presented consider city landscapes and quality of life conditions based on mathematical network models and optimization. Interdisciplinary Works from prominent researchers in mathematical modeling, optimization, architecture, engineering, and physics are featured in this volume to promote health and well-being through design. Specific topics include: - Current technology that form the basis of future living in smart cities - Interdisciplinary design and networking of large-scale urban systems - Network communication and route traffic optimization - Carbon dioxide emission reduction - Closed-loop logistics chain management and operation - Modeling the effect urban environments on aging - Health care infrastructure - Urban water system management - Architectural design optimization Graduate students and researchers actively involved in architecture, engineering, building physics, logistics, supply chain management, and mathematical optimization will find the interdisciplinary work presented both informative and inspiring for further research.

Structures and Architecture Paulo J. da Sousa Cruz 2016-10-14 Although the disciplines of architecture and structural engineering have both experienced their own historical development, their interaction has resulted in many fascinating and delightful structures. To take this interaction to a higher level, there is a need to stimulate the inventive and creative design of architectural structures and to persuade architects and structural engineers to further collaborate in this process, exploiting together new concepts, applications and challenges. This set of book of abstracts and full paper searchable CD-ROM presents selected papers presented at the 3rd International Conference on Structures and Architecture Conference (ICSA2016), organized by the School of Architecture of the University of Minho, Guimarães, Portugal (July 2016), to promote the synergy in the

collaboration between the disciplines of architecture and structural engineering.

The Impact of Building Information Modelling Ray Crotty 2013-03-01 Construction projects involve a complex set of relationships, between parties with different professional backgrounds trying to achieve a very complex goal. Under these difficult circumstances, the quality of information on which projects are based should be of the highest possible standard. The line-based, two dimensional drawings on which conventional construction is based render this all but impossible. This is the source of some major shortcomings in the construction industry, and this book focuses on the two most fundamental of these: the failure to deliver projects predictably: to the required quality, on time and within budget; and the failure of most firms in the industry to make a survivable level of profit. By transforming the quality of information used in building, BIM aims to transform construction completely. After describing and explaining these problems, the way in which BIM promises to provide solutions is examined in detail. A discussion of the theory and practice of BIM is also provided, followed by a review of various recent surveys of BIM usage in the US, UK and selected European economies. The way in which other industries, including retail and manufacturing, have been transformed by information are explored and compared with current developments in the deployment of BIM in construction. Five case studies from the UK show how BIM is being implemented, and the effects it is having on architects and contractors. This book is perfect for any construction professional interested in improving the efficiency of their business, as well as undergraduate and postgraduate students wishing to understand the importance of BIM.

Discrete Gilles Retsin 2019-04-29 After two decades of experimentation with the digital, the prevalent paradigm of formal continuity is being revised and questioned by an emerging generation of architects and theorists. While the world struggles with a global housing crisis and the impact of accelerated automation on labour, digital designers' narrow focus on mere style and continuous differentiation seems increasingly out of touch. This issue charts an emerging body of work that is based on a computational understanding of the discrete part or building block - elements that are as scalable, accessible and versatile as digital data. The discrete proposes that a new, digital understanding of assembly, based on parts, contains the greatest promise for a complex, open-ended, adaptable architecture. This approach capitalises on the digital economy and automation, with the potential of the digital to democratise production and increase access. The digital not only has deep implications for how we design and produce architecture; it is first and foremost a new system of production with economic, social and political consequences that need to be taken into account. This issue presents a diverse body of work focused on the notion of the discrete: from design experiments and aesthetics, to urban models, tectonics, distributed robots, new material organisations and post-capitalist scenarios engaging with automation. Contributors: Viola Ago, Mario Carpo, Emmanuelle Chiappone-Piriou, Mollie Claypool, Manuel Jimenez García, Daniel Koehler and Rasa Navasaityte, Immanuel Koh, Neil Leach, Ryan Manning, Philippe Morel, M Casey Rehm, Jose Sanchez, Marrikka Trotter, Manja van de Worp, Maria Yablonina and Lei Zheng. Featured Architects: Kengo Kuma, Lab-eds, Plethora Project, MadM, EZCT, Eragatory and Studio Kinch.

Die Design and Construction Society of Manufacturing Engineers 1961

Responsive Landscapes Bradley E Cantrell 2015-11-19 The sensing, processing, and visualizing that are currently in development within the environment boldly change the ways design and maintenance of landscapes are perceived and conceptualised. This is the first book to rationalize interactive architecture and responsive technologies through the lens of contemporary landscape architectural theory. Responsive Landscapes frames a comprehensive view of design projects using responsive technologies and their relationship to landscape and environmental space. Divided into six insightful sections, the book frames the projects through the terms; elucidate, compress, displace, connect, ambient, and modify to present and construct a pragmatic framework in which to approach the integration of responsive technologies into landscape architecture. Complete with international case studies, the book explores the various approaches taken to utilise responsive technologies in current professional practice. This will serve as a reference for professionals, and

academics looking to push the boundaries of landscape projects and seek inspiration for their design proposals.

Planet City Liam Young 2020-12-17 Planet City is a speculation of what might happen if the world collapsed into a new home for 10 billion people, allowing the rest of the world to return to a global wilderness. It is both an extraordinary image of tomorrow and an urgent examination of the environmental questions that face us today.

Tall Building Foundation Design Harry G. Poulos 2017-07-20 This book provides a comprehensive guide to the design of foundations for tall buildings. After a general review of the characteristics of tall buildings, various foundation options are discussed followed by the general principles of foundation design as applied to tall buildings. Considerable attention is paid to the methods of assessment of the geotechnical design parameters, as this is a critical component of the design process. A detailed treatment is then given to foundation design for various conditions, including ultimate stability, serviceability, ground movements, dynamic loadings and seismic loadings. Basement wall design is also addressed. The last part of the book deals with pile load testing and foundation performance measurement, and finally, the description of a number of case histories. A feature of the book is the emphasis it places on the various stages of foundation design: preliminary, detailed and final, and the presentation of a number of relevant methods of design associated with each stage.

Parametric Building Design Using Autodesk Maya Ming Tang 2014-03-26 Due to its comprehensive tool-set and great potential for 3D modeling, more and more architectural design and interior design firms are adapting Autodesk Maya and integrating it into their practice. There has been no book aimed at architects and designers who wish to harness the opportunities presented by this software, until now..... The book promotes parametric design. It integrates the theoretical research of computational design and Maya non-linear modeling techniques associated with simulation, animation, digital fabrication and form-finding within 2D & 3D design. Readers will learn: How to use Maya polygon and NURBS modeling tools to create non-linear procedural model. How to use Maya driver keys and relationship tools to generate parametrically negotiable solutions across various design professions. The design logic and generative processes, as well as the potential of parametric thinking as a resourceful tool for achieving diversity and complexity in form generation and fabrication. How to use Maya to prepare files for rapid prototyping and the integration of Maya into various fabrication techniques such as laser cutting, CNC milling, and 3D printing. How to create a digital simulation to simulate all aspects of surface properties and dynamic forces with Maya physics engine. How to use Maya skeleton system and animation tools to control complex architectural forms. How to create photo-realistic renderings with Maya lighting, material and texture mapping. Using several real projects as examples, the book will go through the entire rendering process step by step. How to combine Maya with various CAD/BIM tools to create an efficient design pipeline. How to use Maya MEL script to create customized tools and interface. The book includes case studies from Zaha Hadid Architects, Greg Lynn Form, Gage Clemenceau Architects, Tang & Yang Architects, as well as step by step exercises, demonstration projects and crucially a fantastic online resource which includes video tutorials, scripts, and Maya source files.

AAD Algorithms-Aided Design. Parametric Strategies Using Grasshopper Arturo Tedeschi 2014
BIM Handbook Rafael Sacks 2018-07-03 Discover BIM: A better way to build better buildings Building Information Modeling (BIM) offers a novel approach to design, construction, and facility management in which a digital representation of the building product and process is used to facilitate the exchange and interoperability of information in digital format. BIM is beginning to change the way buildings look, the way they function, and the ways in which they are designed and built. The BIM Handbook, Third Edition provides an in-depth understanding of BIM technologies, the business and organizational issues associated with its implementation, and the profound advantages that effective use of BIM can provide to all members of a project team. Updates to this edition include: Information on the ways in which professionals should use BIM to gain maximum value New topics such as collaborative working, national and major construction clients, BIM standards and

guides A discussion on how various professional roles have expanded through the widespread use and the new avenues of BIM practices and services A wealth of new case studies that clearly illustrate exactly how BIM is applied in a wide variety of conditions Painting a colorful and thorough picture of the state of the art in building information modeling, the BIM Handbook, Third Edition guides readers to successful implementations, helping them to avoid needless frustration and costs and take full advantage of this paradigm-shifting approach to construct better buildings that consume fewer materials and require less time, labor, and capital resources.

Digital And Parametric Architecture Carlo Aiello 2014-12-01 Digital And Parametric Architecture explores the development of the latest digital tools including advance modeling software and computer aided design in the production of architecture. It is a journey through the most fascinating projects, digitally designed and fabricated, during the second decade of the 21st century. The book highlights the use of these technologies to explore tectonic operations such as sectioning, folding, contouring, and tessellating. A wide variety of projects that range in scale and location offer an insight into the architecture of the future.

Building Information Modeling Karen M. Kensek 2014-04-16 This is a design guide for architects, engineers, and contractors concerning the principles and specific applications of building information modeling (BIM). BIM has the potential to revolutionize the building industry, and yet not all architects and construction professionals fully understand what the benefits of BIM are or even the fundamental concepts behind it. As part of the PocketArchitecture Series it includes two parts: fundamentals and applications, which provide a comprehensive overview of all the necessary and essential issues. It also includes case studies from a range of project sizes that illustrate the key concepts clearly and use a wide range of visual aids. Building Information Modeling addresses the key role that BIM is playing in shaping the software tools and office processes in the architecture, engineering, and construction professions. Primarily aimed at professionals, it is also useful for faculty who wish to incorporate this information into their courses on digital design, BIM, and professional practice. As a compact summary of key ideas it is ideal for anyone implementing BIM.

Best Practices in Sustainable Building Design Shahin Vassigh 2012 This unique book and DVD is an interactive learning environment composed of seven content areas: building form, envelopes, structures, climate control systems, renewable energy, lighting, and landscape design. Each of these content areas is subdivided into learning modules introducing the subject matter and investigates best practices for climate responsive and ecologically sustainable building design and construction. The DVD will help visualize and engage with concepts that may otherwise be too ambiguous or difficult to comprehend in a book format.

ECAADe 2017 Antonio Fioravanti 2017

The Robotic Touch Fabio Gramazio 2014 Introduces a radically new way of thinking about and materializing architecture. It is the first anthology on architectural design with robots and provides a selection of projects that have originated over almost a decade of research at ETH Zurich.

Computational Morphologies Michela Rossi 2017-10-04 This book represents an invaluable and up-to-date international exchange of research, case studies and best practice to tackle the challenges of digital technology, computer-aided design, 3D modeling, prototyping machines and computational design. With contributions from leading experts in the field of industrial design and cultural heritage, it is split into three parts. The first part explores basic rules of design, design models and shape grammar, including the management of complex forms, and proves that innovative concepts may be derived from organic models using generative design. The second part then investigates responsive design, describing how to manage the changing morphologies of buildings through pre-programmed mechanisms of real-time response and feedback embedded in inhabitable spaces. Lastly, the third part focuses on digital heritage and its capability to increase the interaction and manipulation of object and concepts, ranging from augmented reality to modeling generative tools. The book gathers peer-reviewed papers presented at the eCAADe (Education and Research in Computer-Aided Architectural Design in Europe) Regional International Symposium, held in Milan, Italy, in 2015.

Post-Parametric Automation in Design and Construction Alfredo Andia 2014-11-01

Automation, a mixture of algorithms, robots, software, and avatars, is transforming all types of jobs and industries. This book responds to one critical question for the design and construction industry: “how are architects, engineers, and contractors using information technology to further automate their practices?” Addressing the use of new digital technologies, particularly parametric automation for design and construction in the building industry, this book looks at how technologically advanced architectural and engineering practices are semi-automating their design processes by using sophisticated algorithms to transform their workflows. The book also documents a set of firms that are further advancing automation by using pre-fabrication, modularization, and custom designs via robotics.

Parametric Design for Architecture Wassim Jabi 2013-09-15 Architects use CAD to help them visualize their ideas. Parametric design is a fast-growing development of CAD that lets architects and designers specify the key parameters of their model and make changes interactively. Whenever changes are made the rest of the model updates automatically. Through a detailed description of various parametric, generative and algorithmic techniques, this book provides a practical guide to generating geometric and topological solutions for various situations, including explicit step-by-step tutorials. While the techniques and algorithms can be generalized to suit to any parametric environment, the book illustrates its concepts using the scripting languages of one of the most powerful 3D visualization and animation design software systems (Autodesk 3ds Max MAXScript), one of the most popular open-source Java-based scripting environments (Processing), and a brand new language specifically tailored for parametric and generative design (Autodesk DesignScript). This clear, accessible book will have a wide appeal to students and practitioners who would like to experiment with parametric techniques.

Codify Bradley Cantrell 2018-05-16 Codify: Parametric and Computational Design in Landscape Architecture provides a series of essays that explore what it means to use, modify and create computational tools in a contemporary design environment. Landscape architecture has a long history of innovation in the areas of computation and media, particularly in how the discipline represents, analyses, and constructs complex systems. This curated volume spans academic and professional projects to form a snapshot of digital practices that aim to show how computation is a tool that goes beyond methods of representation and media. The book is organized in four sections; syntax, perception, employ, and prospective. The essays are written by leading academics and professionals and the sections examine the role of computational tools in landscape architecture through case studies, historical accounts, theoretical arguments, and nascent propositions.

The Alphabet and the Algorithm Mario Carpo 2011-02-04 The rise and fall of identical copies: digital technologies and form-making from mass customization to mass collaboration. Digital technologies have changed architecture—the way it is taught, practiced, managed, and regulated. But if the digital has created a “paradigm shift” for architecture, which paradigm is shifting? In *The Alphabet and the Algorithm*, Mario Carpo points to one key practice of modernity: the making of identical copies. Carpo highlights two examples of identity crucial to the shaping of architectural modernity: in the fifteenth century, Leon Battista Alberti's invention of architectural design, according to which a building is an identical copy of the architect's design; and, in the nineteenth and twentieth centuries, the mass production of identical copies from mechanical master models, matrixes, imprints, or molds. The modern power of the identical, Carpo argues, came to an end with the rise of digital technologies. Everything digital is variable. In architecture, this means the end of notational limitations, of mechanical standardization, and of the Albertian, authorial way of building by design. Charting the rise and fall of the paradigm of identity, Carpo compares new forms of postindustrial digital craftsmanship to hand-making and the cultures and technologies of variations that existed before the coming of machine-made, identical copies. Carpo reviews the unfolding of digitally based design and construction from the early 1990s to the present, and suggests a new agenda for architecture in an age of variable objects and of generic and participatory authorship.

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

CONVR 2011 Hans-Joachim Bargstädt 2011

Digital Media Series Eddy Man Kim 2020-06 Nowadays, it is not unusual to find scaled building models with complex geometries of their facades and laser-burn marks in architecture schools. Even, 3D-printed models are also frequently found. Although there are prevalent critiques that nowadays architecture students are focusing form itself rather than space quality, creating complex forms that cannot be developed in practice, it is true that these days' student can handle geometries well due to many computer software. This book focuses on this part, more free, efficient, and accurate geometric expression and creation, rather than on what space is and how it is organized. Some people said it is getting easier to learn diverse digital design software due to easily accessible media in this digital era. However, because of overflow of information in the media, paradoxically, it is getting harder for beginners to learn various digital tools, questioning where and how they can start it. The main motivation of Digital Media Series (DMS) is needs for a textbook with systematically organized and structured knowledges about digital software in architecture. DMS recognizes the challenges beginners face when learning a new software like Grasshopper. While in reality the tool is not that difficult to learn with proper learning materials, beginners often spend too much time stuck on using a particular hurdle. The series was written to alleviate such challenge. The first book of DMS, Rhinoceros, introduces 3D modeling concepts as well as modeling habits, logics, and tips, and techniques, interweaving them with geometrical relationships. Specifically, the book promotes the mantra for a structured manipulation of geometry: from points to curves, from curves to surfaces, and from surfaces to volumes. This book, Grasshopper as the second book of DMS, also has similar configuration, contents categories, and organization to the first book based on the mantra. Furthermore, comparing and contrasting similar features in Rhinoceros, this book explains components in Grasshopper so that users who can handle geometries in Rhinoceros can smoothly transfer their modeling knowledges, habits, and logic from explicit to implicit modeling. This book aims to avoid learning concepts of algorithmic design or visual scripting through examples, and is designed to learn basic principles of Grasshopper and apply them to design. Although Grasshopper has a very well-organized forum based on collective intelligence where users can ask and answer questions, and there are various tutorials that are easy to access through web and various media, I believe that this book can fulfill the beginners' needs a textbook presenting an outline of Grasshopper and help users develop their ability to handle geometries through algorithmic idea. This book is not meant to be the only reference for learning Grasshopper. Users should use the book in combination with the wealth of public resources such as forums, tutorials, and documentation created by other advanced users. For any part of the book that the users may need more detailed information on, users should refer to the official documentation created by the software developer (McNeel) and the user forum of Grasshopper.

Postparametric Automation In Design And Construction

Building Technology :

In today digital age, eBooks have become a staple for both leisure and learning. The convenience of accessing Postparametric

Automation In Design And Construction Building Technology and various genres has transformed the way we consume literature. Whether you are a voracious reader or a knowledge seeker, read Postparametric Automation In Design And Construction Building Technology or finding the best eBook that aligns with your interests and needs is crucial. This article delves into the art of finding the perfect eBook and explores the platforms and strategies to ensure an enriching reading experience.

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