



Elements Parametric Design Robert Woodbury

John S. Gero



Elements Parametric Design Robert Woodbury:

Elements of Parametric Design Robert Francis Woodbury, 2010 Pushed by practices wanting to produce novelty computer aided design systems are increasingly parametric they represent designs that change with their input data Such systems give more control and capability to designers but require much more comprehensive understanding to be used effectively This book teaches what new knowledge and skills designers need in order to master the parametric and how they can learn and use them *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

The Evolution of Computation in Architecture Michael Fox, Bradley Bell, 2024-10-31 This book is the first comprehensive overview of the pioneering works events and people that contributed to the paradigm shift defined by computation in architecture Only recently has computation fostered profound new ways of designing fabricating constructing and thinking about architecture While the profession sits at the end of the beginning of this historically transformative shift it is now possible to look back upon the rapidly maturing landscape of projects influencers and tools that have finally begun to catch up with the visionary thinking of the past Readers are guided through the fascinating and fast paced historical timeline of the development of computation in architecture Beginning with an account of the pioneering futuristic thinkers the authors then guide the reader through the birth of computation the appropriation of tools and the impact of experimentation on the profession leading into the legitimacy of research and how paradigms have been expanded The examples and influences are presented in a way that they can be understood and built upon This book is a must read for students of computation in architecture as well as researchers and practicing architects thinking about how the tools we use and the ways we design our buildings and environments with them can truly impact our lives

The Autopoiesis of Architecture, Volume II Patrik Schumacher, 2012-04-24 This is the second part of a major theoretical work by Patrik Schumacher which outlines how the discipline of architecture should be understood as its own distinct system of communication Autopoiesis comes from the Greek and means literally self production it was first adopted in biology in the 1970s to describe the essential

characteristics of life as a circular self organizing system and has since been transposed into a theory of social systems This new approach offers architecture an arsenal of general comparative concepts It allows architecture to be understood as a distinct discipline which can be analyzed in elaborate detail while at the same time offering insightful comparisons with other subject areas such as art science and political discourse On the basis of such comparisons the book insists on the necessity of disciplinary autonomy and argues for a sharp demarcation of design from both art and engineering Schumacher accordingly argues controversially that design as a discipline has its own sui generis intelligence with its own internal logic reach and limitations Whereas the first volume provides the theoretical groundwork for Schumacher s ideas focusing on architecture as an autopoietic system with its own theory history medium and its unique societal function the second volume addresses the specific contemporary challenges and tasks that architecture faces It formulates these tasks looking specifically at how architecture is seeking to organize and articulate the complexity of post fordist network society The volume explicitly addresses how current architecture can upgrade its design methodology in the face of an increasingly demanding task environment characterized by both complexity and novelty Architecture s specific role within contemporary society is explained and its relationship to politics is clarified Finally the new global style of Parametricism is introduced and theoretically grounded

The Politics of Parametricism Matthew Poole, Manuel Shvartzberg, 2015-10-22 Over the last decade parametricism has been heralded as a new avant garde in the industries of architecture urban design and industrial design regarded by many as the next grand style in the history of architecture heir to postmodernism and deconstruction From buildings to cities the built environment is increasingly addressed designed and constructed using digital software based on parametric scripting platforms which claim to be able to process complex physical and social modelling alike As more and more digital tools are developed into an apparently infinite repertoire of socio technical functions critical questions concerning these cultural and technological shifts are often eclipsed by the seductive aesthetic and the alluring futuristic imaginary that parametric design tools and their architectural products and discourses represent The Politics of Parametricism addresses these issues offering a collection of new essays written by leading international thinkers in the fields of digital design architecture theory and technology Exploring the social political ethical and philosophical issues at stake in the history practice and processes of parametric architecture and urbanism each chapter provides different vantage points to interrogate the challenges and opportunities presented by this latest mode of technological production

Inside Smartgeometry Terri Peters, Brady Peters, 2013-08-12 Smartgeometry SG is a key influence on the architectural community who explore creative computational methods for the design of buildings An informal international network of practitioners and researchers the group meets annually to experiment with new technologies and collaborate to develop digital design techniques When SG was founded in 2001 by London based architects and friends Hugh Whitehead Foster Partners J Parrish AECOM and Lars Hesselgren PLP there was little in the way of parametric tools for architecture SG was founded to

encourage the development discussion and experimentation of digital design techniques driven by design intent rather than on construction specifications SG calls for a re consideration of the design process where the creation of computational mechanisms become an integral part of designing not a task done prior to or separate from the process In the early years of the workshops this need for new ways of design thinking led to the development of Bentley s GenerativeComponents software In recent years the ecology of these design environments has diversified to include multiple software platforms as well as innovative fabrication techniques and interactive environments SG has grown accordingly from a handful of experts to an international network of designers who are defining the future of design Founded by digital pioneers it creates the algorithmic designers of the future Inside Smartgeometry can be seen as a retroactive manifesto for SG examining and contextualising the work of the SG community the digital spaces prototypes and buildings designed using bespoke tools created in response to architectural ideas From interactive crowd sourcing tools to responsive agent based systems to complex digitally fabricated structures it explores more than a decade of advances that have been influential for architecture Through 23 original texts including reflections by the founders and key contributors such as Robert Aish Martin Bechthold Mark Burry Chris Williams and Robert Woodbury the book offers a critical state of the art of computational design for architecture Many international design and engineering firms have participated in SG and the book includes chapters by practitioners from offices such as CASE Design2Production Foster Partners Grimshaw Populous and SOM

Design for CNC Gary Rohrbacher, Anne Filson, Anna Kaziunas France, Bill Young, 2017-10-02 Design DIY and computer controlled fabrication are a powerful combination for making high quality customized things Written by the founders of the architecture design and research firm Filson and Rohrbacher this book takes you through the basics of CNC fabrication the design process production and construction of your own furniture designs Through their AtFAB series of projects accompanied by an overview of digital techniques and design thinking this book introduces the knowledge and skills that you ll find widely applicable across all kinds of CNC projects Not only will you learn how to design fabricate and assemble a wide range of projects you ll have some great furniture to show for it While 3D printing has been grabbing headlines high school college library and other public makerspaces have been making things with CNC machines With a CNC router you can cut parts from strong tactile durable materials like wood Once you have your design and material you can set up your job and let it run When it s done you can put the project together for an heirloom of your own While 3D printing can make exciting things with complex designs CNCs are the digital workhorses that produce large scale long lasting objects

Design Computing and Cognition'20 John S. Gero, 2022-02-24 The papers in this volume are from the Ninth International Conference on Design Computing and Cognition DCC 20 held virtually at the Georgia Institute of Technology Atlanta USA They represent the state of the art of research and development in design computing and design cognition including the increasingly active area of design cognitive neuroscience They are of particular interest to design researchers developers and users of advanced

computation in designing as well as to design educators This volume contains knowledge about the cognitive behavior of designers which is valuable for those who need to gain a better understanding of designing **Parametricism 2.0** Patrik Schumacher,2016-08-22 Parametricism is an avant garde architecture and design movement that has been growing and maturing over the last 15 years emerging as a remarkable global force The tendency started in architecture but now encompasses all design disciplines from urban design to fashion In architecture the style has an international following and is currently progressing beyond its experimental roots to make an impact on a broader scale with practices like Zaha Hadid Architects ZHA winning and completing large scale architectural projects worldwide Parametricism implies that all elements and aspects of an architectural composition or product are parametrically malleable and the style owes its original unmistakable physiognomy to its unprecedented use of computational design tools and fabrication methods All design parameters are conceived as variables that allow the design to vary and adapt to the diverse complex and dynamic requirements of contemporary society Although Parametricism has been talked about and hotly debated for a number of years so far there has been no publication dedicated to Parametricism The issue is guest edited by Patrik Schumacher partner at ZHA and one of the world s most highly renowned advocates of Parametricism Contributors Philippe Block Shajay Bhooshan Mark Burry Mario Carpo Manuel DeLanda John Frazer Mark Foster Gage Enriqueta Llabres and Eduardo Rico Achim Menges Theo Spyropoulos Robert Stuart Smith Philip F Yuan Featured architects and designers Arup Mark Fornes THEVERYMANY Zaha Hadid Architects ZHA and Ross Lovegrove **Design Studio Four: Parametric Symphony** Zachary Elliott,2019-07-10 Architecture is the frozen music Music is the flowing architecture After being accepted into professional school we begin the second phase of our education in Studio Four Professor Jerry Stivers the bard of this new adventure leads the sixteen students of 3116 on a journey to discover the timeless relationship between music and architecture phenomenology and performance Throughout the semester we discover new perspectives on design through the avenue of song From a model project for a musical component to a humble performing arts center in OKC traditional paradigms of architecture are challenged and reignited through this new parametric symphony

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