



ELEMENTS OF PARAMETRIC DESIGN

ROBERT WOODBURY

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Elements Parametric Design Robert Woodbury

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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 *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 **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 Autopoeisis 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 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

Inflection 02 : Projection Studio Gang, dNA Architecture, Fender Katsalidis Architects, 2015-09-21 Our built environment exists in a perpetual state of becoming caught in a process of creation that is continuous and unending If we wish to understand architecture today we must engage with the state of flux that defines it In 2015 *Inflection Volume 02* considers the idea of projection, interrogating its meaning in architecture and the built environment Bringing together the work of students, academics and practitioners from Australia and around the world this issue addresses the trajectories of the architectural design process, the changing role of architects in society and the continuing state of becoming that defines our cities Includes contributions by Studio Gang, dNA Architecture, Perez Gomz and Studio Sioli, Fender Katsalidis Architects and others *Inflection* is a student-run design journal based at the Melbourne School of Design, Melbourne University Born from a desire to stimulate debate and generate ideas it advocates the discursive voice of students, academics and practitioners Founded in 2013 *Inflection* is a home for provocative writing, a place to share ideas and engage with contemporary discourse *Inflection* is fundamentally a printed journal The physicality of the object, its weight, texture and smell all contribute to the experience of the reader *Inflection* asserts that criticality is possible in any mode of expression, written or drawn, prose or poetry *Inflection* is themed and encourages a plurality of opinions

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