



Parametric Design For Architecture

**Ju Hyun Lee, Michael J. Ostwald, Ning
Gu**



Parametric Design For Architecture:

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.

Strategies for Parametric Design in Architecture Roland Hudson, 2010 A new specialist design role is emerging in the construction industry. The primary task related to this role is focused on the control development and sharing of geometric information with members of the design team in order to develop a design solution. Individuals engaged in this role can be described as parametric designers. Parametric design involves the exploration of multiple solutions to architectural design problems using parametric models. In the past these models have been defined by computer programs now commercially available parametric software provides a simpler means of creating these models. It is anticipated that the emergence of parametric designers will spread and a deeper understanding of the role is required. This thesis is aimed at establishing a detailed understanding of the tasks related to this new specialism and to develop a set of considerations that should be made when undertaking these tasks. The position of the parametric designer in architectural practice presents new opportunities in the design process. This thesis also aims to capture these developments in this field of design are driven by practice. It is proposed that a generalised understanding of applied parametric design is primarily developed through the study of practical experience. Two bodies of work inform this study. First a detailed analytical review of published work that focuses on the application of parametric technology and originates from practice. This material concentrates on the documentation of case studies from a limited number of practices. Second a series of case studies involving the author as participant and observer in the context of contemporary practice. This primary research of applied use of parametric tools is documented in detail and generalised findings are extracted. Analysis of the literature from practice and generalisations based on case studies is contrasted with a review of relevant design theory. Based on this a series of strategies for the parametric designer are identified and discussed.

Parametric Design in Architecture Carlos R. Barrios, 2013 Fundamentals methods and applications of parametric design for architects. Parametric design is a form of computer aided design in which geometrical elements such as

architectural components are defined and interconnected by variable attributes known as parameters. It counts as one of the most advanced methods in schools of architecture and is quickly becoming a standard in day to day architectural practice. Long the domain of mechanical engineering and automotive design then explored by international avant garde architecture, parametric models can now be used as innovative tools for creative and efficient design work. This book explains parametric design, shows how it works and focuses on its functional advantages and practical applications. The author, Carlos R Barrios, is an architect with a background in computer science and fine arts. He has accompanied the development of parametric design at MIT in Cambridge and in cooperation with large practices such as SOM, KPF and Foster Partners and has conveyed the principles and applications for many years in teaching. Systematically structured, illustrated with international built examples and instructive drawings by the author, this book provides a thorough point of reference on a complex subject.

Case Studies in Parametric Design Jeffrey Collins, 2023-09-28. *Case Studies in Parametric Design* is a guide to scripting digital models for architects, designers and builders. The use of parametric design in architecture has afforded the realization of incredible built work. Modelling software can resolve complex geometry and aid in the development of stunning creations. Methods for creating the digital models to achieve these results, however, can be perplexing. Learning curves are steep and benefits garnered from adapting existing workflows to incorporate new tools may appear trivial. This book describes programming techniques for a variety of buildings and provides novices an understanding of language and processes, challenges intermediate users with rigor and intentionality and offers proficient practitioners objectives beyond novel form making. The case studies consist of six mass topologies and six facade topologies; each includes sample topology models and scripts, descriptions of steps for generating customizable parametric models and suggestions for additional modelling inquiries. This is essential reading for students and practitioners interested in harnessing the full potential of parametric design.

Parametric Design in Architecture Birkhauser Verlag GmbH, 2013. This book explains parametric design, shows how it works and focuses on its functional advantages and practical applications. The author, Carlos R Barrios, is an architect with a background in computer science and fine arts. He has accompanied the development of parametric design at MIT in Cambridge and in cooperation with large practices such as SOM, KPF and Foster Partners and has conveyed the principles and applications for many years in teaching. Systematically structured, illustrated with international built examples and instructive drawings by the author, this book provides a thorough point of reference on a complex subject.

Beyond Spectacle Ding Xu, 2022. In recent years, with the help of rapid computational developments, Parametric Design has become common in architectural practice. Parametric architecture, due to its unique appearance, has rapidly been associated with certain aesthetic trends. This is mostly because architects initially adopted it to make radical forms, not because parametric techniques demand any specific geometry. For the Chanel Mobile Art Pavilion by Zaha Hadid Architects, the team built a dynamic and fluid structure using parametric techniques. The form evolved from the spiraling shapes found in nature and the

fluid geometry provides a continuum of space and a system of logic As a mobile pavilion it is made of a succession of reduced arched segments in order to provide easy transportation In addition to the spectacle to behold this demonstrates what else parametric design can achieve and how parametric architecture has the potential to change Addressing this topic through an exhibition will give visitors a clear view of parametric architecture which consists of form making by simulating algorithms and morphogenesis then fabrication schemes then translating the intellectual and physical into the sensual By using the computer to simulate natural and morphogenetic forms then controlling the design and fabrication process of the pavilion exhibition through adjustment of the parameters visitors will witness parametric design in action The narrative space can be automatically generated and modeled by algorithms In addition to the form parametric design can produce a low technology fabrication scheme which is convenient for manufacturing accurate and efficient These features will be all presented in the pavilion

Abstract Parametric Design Approach in Architecture Between Concept and Reality, Theory and Practice. The Impact on Its Users and the Existing Setting Wissam Elmawi, 2023-04-19 Master's Thesis from the year 2022 in the subject Art Architecture History of Construction grade 1 8 Anhalt University of Applied Sciences Bauhaus Dessau course Design Research language English abstract This research investigates the evaluation of parametric based architecture in relation to its users and the surrounding environment The Phaeno Science Centre in Germany serves as a case study raising questions about how well the building fits with its local setting and users The study adopts a qualitative and quantitative methodology known as Post Occupancy Evaluation which seeks feedback from building users and architects The research emphasizes the need to distinguish between the behavior of complex systems and their users and the existing setting It stresses that evaluating parametric architecture requires an understanding of the whole context rather than just a single structure The study also suggests that architects should focus on the connectivity between built structures and users rather than ignoring it In addition the study highlights the importance of evaluating architecture in general and parametric architecture in particular given its widespread use in our built environment It advocates for the inclusion of the Post Construction Evaluation phase in the conventional core phases of the Architectural Design Process making it just as important as other stages The methodology for this study involves gathering data from numerous sources including users locals architects professionals journals newspapers libraries interviews surveys site visits and personal reflections By incorporating multiple viewpoints the study hopes to gain a comprehensive understanding of the perceptions surrounding parametric architecture Overall the study emphasizes the importance of evaluating parametric based architecture in relation to its users and the existing environment It stresses the need for architects to focus on the functional

Parametric Design Cyrille Mbeumen Futcha, 2017 **Parametric Architecture with Grasshopper** Arturo Tedeschi, 2011 The handbook introduces the theoretical basis and the main parametric modeling techniques based on algorithms showing Grasshopper's practical applications and its potentialities in architecture design and fabrication P 4 of cover *Impact of Parametric Design on*

Young Architects Ayda Aglmand Azarian, Niloofar Amel, Pourya Ahmadzadeh, Elmira Amiri, Foad Bonakdar, Mehdi Bahari, Mitra Dolatshahi, Mahsa Fakhr Jahani, Afsane Fardyar, Negin Hosein Alizadeh, Nasim Tabrizi, Sahand Latifi, Mohamad Reza Talebi, Leila Manzouri, Samira Mahooutchian, Negar Mikhi, Amir Ali Navadeh Shahla, Sajjad Sabour, Saede Sadegpour, Ali Khiabani, 2015-11-03 The book contains general descriptions about features of museum design as well as a summary of project design process which was selected and rewrote from M A thesis of the students The book is consist of explanations about methods and design elements of spaces such as museums cultural centers and projects with themes like digital museum children museum and garden art museum music museum theatre and structures like parasite pier and bridge Meanwhile one of the salient features of the book is that it offers new ideas about facade design and samples based on Iranian and Islamic patterns for spaces like museums and exhibiting spaces Taking benefit of design process and being bounded to it similar to other books is really important for me in this book too As it is seen in the projects conceptual sketches play important role in this process Conceptual sketch stage is related to embodiment of ideas and thoughts formed in architectural imaginations However they are not sufficiently clear and the sketches help them to express themselves better Conceptual sketches of these projects are not merely limited to manual design rather they are presented as 3D models in computer or volumetric works using 3D pens or prints At this stage there is a traverse between manual sketches and modeling The sketches are modeled with a new perspective or designed based on 3D models to enrich their volume or space This traverse which is regarded as a transversal movement during the design process is of special importance I call it interaction between design and computer This book is a software aided design practice trying to reach a better perception and recognition of Iranian architecture and modern achievements of western architects In fact the book demonstrates the process of transition from manual to digital design in a country which was far from most software and technological progresses as well as essential trainings An endeavor to keep pace with global design pulse and its training *Codify* Bradley Cantrell, Adam Mekies, 2018-05-01 *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 Politics of Parametricism** Matthew Poole, Manuel Shvartzberg, 2020 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

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 Landscape Architects Andrew Madl, 2021-09-05 Parametric Design for Landscape Architects provides a sequence of tutorial based workflows for the creation and utilization of algorithmic tools calibrated toward the field of landscape architecture Contemporary practice and projective theory in landscape architecture require the processing and design of data associated with complex systems to adequately represent composite emergent scenarios Aligning to both traditional and nascent processes of analysis and digital modeling this book unpacks and decodes the characterization of algorithmic based automation leveraging software that is widely accessible in both academia and professional practice Curated throughout are workflows that apply to a multiplex of computation programs that widely support the design analysis and production of landscapes primarily concentrated on digital modeling tools Grasshopper and Rhinoceros It is a much needed visually accessible resource to aid in more efficient understanding and creation of tools that automate and re examine traditional calculations analyses drawing standards form finding strategies fabrication preparations and speculative assessments simulation This primer provides professionals and students with multifaceted skill sets that when applied in practice expand and expedite conventional and speculative design workflows applicable to spatial design and more specifically landscape architecture The book includes over 200 full colour drawings images and tables to illustrate and support examples throughout

From Control to Design Tomoko Sakamoto, 2008-09-01 Parametric and algorithmic design are two of the fastest emerging most radical technologies reshaping architecture today This book presents six independent practices that explore current applications of parametric and algorithmic design techniques in architectural production If the first

generation of digital modeling programs allowed designers to conceive new forms and processes a new breed of digital techniques is being discussed to control and realize these forms How are these techniques affecting architectural practice and what potentials do they offer This is a compilation of projects from leading practitioners across the fields of parametric and algorithmic design A compelling multi perspective debate on the future of design Featuring Mutsuro Sasaki AGU Arup Aranda Lasch Michael Meredith mos P art AKT Designtoproduction with a conversation between Sanford Kwinter and Jason Payne

Parametric Design Approach in Architecture Between Concept and Reality, Theory and Practice Wissam Elmawi,2022

Design Thinking Ju Hyun Lee,Michael J. Ostwald,Ning Gu,2025-09-30 This book presents new ways of facilitating design thinking through the combination of cognitive design strategies and information technologies It provides readers with an in depth understanding of the traditional and digital design processes and activities that are employed in architecture computational design communication design and graphic design In response to evolving design practices including the growing use of artificial intelligence AI this fully updated and expanded edition features a new chapter on digital design collaboration along with extended discussions on the role of technology in shaping creative and collaborative processes The book is divided into three parts Part I which focuses on creativity uses evidence derived from empirical studies to develop an understanding of the way computational environments shape design thinking and may lead to more inventive outcomes Part II considers the cognitive sociotechnical dimensions of design teams crowds and collectives It investigates the ways digital design platforms promote interactive and collective thinking Lastly Part III addresses culture examining the linguistic and cultural context of the globalised design ecosystem Providing valuable insights into design thinking this book helps readers engage with their local and global environments It will appeal to academics researchers and professionals with an interest in understanding design thinking in the context of creativity collaboration and culture

Parametric Architecture Huei Sheng Yu,2009 Current parametric design generates many possible solutions during modeling and design process but in the final stage only allows users to choose one solution to develop This thesis demonstrates a design strategy for physical parametric design that embeds knowledge from simulation tools and helps parametric design still keep variations after final model This thesis begins with an introduction of theory and practices of current parametric design and clarifies the connections between its methods and physical parametric design Then a few new concepts and prototypes are proposed and physical parametric designs are demonstrated The thesis presents a series of case studies investigating specific parametric design methods Their objectives are studying ways to implement variations from parametric design to physical world and to fix parametric design s constraint problem through the use of physical feedback loop Some cases are related to simulation environment which can be used as a test platform for fabrication or responsive environment design others are different data access such as visualization Together these physical parametric design projects indicate how to solve the bidirectional constraint in design exploration Finally this paper evaluates new possibilities of this design strategy and construction method

and discusses how the physical models impact digital parametric models key words parametric design Artificial Intelligence Knowledge Base Evolution system design simulation environment Design Thinking: Creativity, Collaboration and Culture Ju Hyun Lee, Michael J. Ostwald, Ning Gu, 2020-08-26 This book presents new ways of facilitating design thinking through the combination of cognitive design strategies and information technologies It provides readers with an in depth understanding of the traditional and digital design processes and activities that are employed in architecture computational design communication design and graphic design The book is divided into three parts Part I which focuses on creativity uses evidence derived from empirical studies to develop an understanding of the way computational environments shape design thinking and may lead to more inventive outcomes Part II considers the cognitive dimensions of design teams crowds and collectives It investigates the ways digital design platforms promote interactive and collective thinking Lastly Part III addresses culture examining the linguistic and cultural context of the globalised design ecosystem Providing valuable insights into design thinking this book helps readers engage with their local and global environments It will appeal to academics researchers and professionals with an interest in understanding design thinking in the context of creativity collaboration and culture **Computational Design Methods and Technologies: Applications in CAD, CAM and CAE Education** Gu, Ning, Wang, Xiangyu, 2012-01-31 The emergence and adoption of computational technologies has significantly changed design and design education beyond the replacement of drawing boards with computers or pens and paper with computer aided design CAD computer aided manufacturing CAM and computer aided engineering CAE applications Computational Design Methods and Technologies Applications in CAD CAM and CAE Education explores state of the art developments in computational design methods and their impact on contemporary design education Readers will find case studies empirical research findings pedagogical theories and reflections Researchers educators designers and developers will better understand how applying pedagogical research and reflection has influenced and will continue to transform the field in the future

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