

# Elements Parametric Design Robert Woodbury

Elements of Parametric Design Smart Graphics The Politics of Parametricism Computational Design Modeling Inside Smartgeometry Handbook of Computer Aided Geometric Design Computational Design Smart Graphics Transportation Mathematical Reviews AA Files Intelligent Systems in Design and Manufacturing Operations Research Bulletin of the Operations Research Society of America Deutsche Nationalbibliografie Chain Store Age Communication Satellite Systems Technology; Cooling and Thermal Design of Electronic Systems The Technology Teacher Current Index to Statistics, Applications, Methods and Theory Robert Francis Woodbury Andreas Butz Matthew Poole Christoph Gengnagel Terri Peters G. Farin Rongrong Yu S. K. Punwani Richard Barry Marsten Cristina H. Amon

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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 international symposium on smart graphics 2005 was held from august 22 24 2005 in the cloister frauenworth on the island of frauensiemsee germany

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

this book publishes the peer reviewed proceeding of the third design modeling symposium berlin the conference constitutes a platform for dialogue on experimental practice and research within the field of computationally informed architectural design more than 60 leading experts the computational processes within the field of computationally informed architectural design to develop a broader and less exotic building practice that bears more subtle but powerful traces of the complex tool set and approaches we have developed and studied over recent years the outcome are new strategies for a reasonable and innovative implementation of digital potential in truly innovative and radical design guided by both responsibility towards processes and the consequences they initiate

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

this book provides a comprehensive coverage of the fields geometric modeling computer aided design and scientific visualization or computer aided geometric design leading international experts have contributed thus creating a one of a kind collection of authoritative articles there are chapters outlining basic theory in tutorial style as well as application oriented articles aspects which are covered include historical outline curve and surface methods scientific visualization implicit methods reverse engineering this book is meant to be a reference text for researchers in the field as well as an introduction to graduate students wishing to get some exposure to this subject

new computational design tools have evolved rapidly and been increasingly applied in the field of design in recent years complimenting and even replacing the traditional design media and approaches design as both the process and product are changing due to the emergence and adoption of these new technologies understanding and assessing the impact of these new computational design environments on design and designers is important for advancing design in the contemporary context do these new computational environments support or hinder design creativity how do those tools facilitate designers thinking such knowledge is also important for the future development of design technologies research shows that design is never a mysterious non understandable process for example one general view is that design process shares a common analysis synthesis evaluation model during which designers interact between design problem and solution spaces understanding designers thinking in different environments is the key to design research education and practice this book focuses on emerging computational design environments whose impact on design and designers have not been comprehensively and systematically studied it comprises three parts the history and recent developments of computational design technologies are introduced in part i the main categories of technologies cover from computer aided drafting and modelling tools to visual programming and scripting tools for algorithmic design to advanced interfaces and platforms for interactions between designers between designers and computers and between the virtual environment and the physical reality to critically explore design thinking especially in these new computational design environments formal approaches to studying design thinking and design cognition are introduced and compared in part ii drawing on literature and studies from the 70s to the current era part iii concludes the book by exploring the impact of different computational design technologies on design and designers using a series of case studies conducted by the author team building on their close collaboration over the past five years the book offers new insights into designers thinking in the rapidly evolving computational design environments which have not been critically and

systematically studied and reported in the current literature the book is meant for design researchers educators and students professional practitioners and consultants as well as people who are interested in computational design in general

covers all aspects of or including computing and decision technology environment energy and natural resources financial services logistics and supply chain operations manufacturing operations optimization public and military services simulation stochastic models telecommunications and transportation

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