

ROUTLEDGE REVIVALS

# **The Geometry of Environment**

**An Introduction to Spatial Organization in Design**

**Lionel March and Philip Steadman**



# Geometry Of Environment An Introduction To Spatial Organization In Design

**Chris Yessios**



## **Geometry Of Environment An Introduction To Spatial Organization In Design:**

The Geometry of Environment Lionel March, Philip Steadman, 2020-10-31 Originally published in 1971 The Geometry of Environment is a fusion of art and mathematics introducing stimulating ideas from modern geometry using illustrations from architecture and design The revolution in the teaching of mathematics and the advent of the computer in design challenge traditional ways of appreciating the space about us and expand the structural understanding of our surroundings through such concepts as transformations symmetry groups sets and graphs This book aims to show the relevance of new maths and encourages exploration of the widening intellectual horizons of environmental design and architecture Empathic Space, 2014-11-19 In recent years questions of space have gained renewed momentum in architecture and urban design as adaptation densification and sustainable regeneration have become an increasing priority While most computing based design tends to emphasise the formal aspects of architecture overlooking space and its users the original computational design approaches first spearheaded in the UK in the 1960s and 1970s tended to be focused on behavioural and occupational patterns Over the last decade a new generation of design research has emerged that has started to implement and validate previous investigations into spatial computation aiming to understand how to design spatial configurations based on user experiences This revives an interest in the experiential that was first explored in the early 20th century by German and Nordic organic architects who invented design methods that correlated cognitive responses of buildings occupants to spatial structure The current revival of human centric design however represents the first design approach that synthesises spatial design and algorithmic techniques with organic design thinking which could also be regarded as a return to the first principles of architectural design Contributors include Paul Coates Christian Derix Olafur Eliasson Lucy Helme Bill Hillier smund Izaki Prarthana Jagannath Dan Montello Juhani Pallasmaa Philip Steadman and Guy Theriault Featured Architects Designers Jussi Nageslev Art Com Stan Allen Aedas R D Markus Braach Kaisersrot Hermann Hertzberger Kazuhiro Kojima Cat Pablo Miranda and Rafi Segal Distributed, Ambient and Pervasive Interactions Norbert Streitz, Panos Markopoulos, 2017-07-03 This book constitutes the refereed proceedings of the 5th International Conference on Distributed Ambient and Pervasive Interactions DAPI 2017 held as part of the 19th International Conference on Human Computer Interaction HCII 2017 held in Vancouver BC Canada in July 2017 The total of 1228 papers presented at the 15 colocated HCII 2017 conferences was carefully reviewed and selected from 4340 submissions These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems The papers accepted for presentation thoroughly cover the entire field of human computer interaction addressing major advances in knowledge and effective use of computers in a variety of application areas This volume contains papers addressing the following major topics designing and evaluating distributed ambient and pervasive interactions natural interaction smart cities art and cultural heritage in smart environments smart environments for quality of life smart environments for learning and creativity and ambient games and

humour     Symmetries of Culture Dorothy K. Washburn, Donald W. Crowe, 2021-02-17 This groundbreaking collaboration between an anthropologist and a mathematician constitutes both a collection of symmetrical pattern designs from many cultures and a monograph on pattern design and the classification of symmetrical patterns Intended for art historians anthropologists classical archaeologists and others interested in the study of material culture it can also serve as a reference and inspiration for the use of symmetrical patterns in art and design This richly illustrated study brings to light dozens of intriguing examples of symmetrical designs for instance in a Zulu loincloth a Japanese chopstick case a New England quilt a Tibetan Plaque of a Thousand Lamas a Hawaiian water gourd The same pattern found in a fantastical drawing of lizards by M C Escher is echoed in a Fijian basket lid and an Egyptian wall mosaic Publishers Weekly This extremely useful guide to classifying plane pattern designs is extensively illustrated with carvings textiles baskets tiles and poetry which are used as examples of various symmetry patterns American Anthropologist An impressive book both in terms of its physical appearance and its content will undoubtedly become the major reference on the analysis of patterns in terms of symmetry properties

Antiquity     **The Autopoiesis of Architecture, Volume I** Patrik Schumacher, 2011-04-20 Take a theoretical approach to architecture with The Autopoiesis of Architecture which presents the topic as a discipline with its own unique logic Architecture's conception of itself is addressed as well as its development within wider contemporary society Author Patrik Schumacher offers innovative treatment that enriches architectural theory with a coordinated arsenal of concepts facilitating both detailed analysis and insightful comparisons with other domains such as art science and politics He explores how the various modes of communication comprising architecture depend upon each other combine and form a unique subsystem of society that co evolves with other important autopoietic subsystems like art science politics and the economy The first of two volumes that together present a comprehensive account of architecture's autopoiesis this book elaborates the theory of architecture's autopoiesis in 8 parts 50 sections and 200 chapters Each of the 50 sections poses a thesis drawing a central message from the insights articulated within the respective section The 200 chapters are gathering and sorting the accumulated intelligence of the discipline according to the new conceptual framework adopted in order to catalyze and elaborate the new formulations and insights that are then encapsulated in the theses However while the theoretical work in the text of the chapters relies on the rigorous build up of a new theoretical language the theses are written in ordinary language with the theoretical concepts placed in brackets The full list of the 50 theses affords a convenient summary printed as appendix at the end of the book The second volume completes the analysis of the discourse and further proposes a new agenda for contemporary architecture in response to the challenges and opportunities that confront architectural design within the context of current societal and technological developments

**Graph Vision** Theodora Vardouli, 2024-11-12 How a protean mathematical object the graph ushered in new images tools and infrastructures for design and catalyzed a digital future for architecture In Graph Vision Theodora Vardouli offers a fresh history of architecture's early entanglements with

modern mathematics and digital computing by focusing on a hidden protagonist the graph Fueled by iconoclastic sentiments and skepticism of geometric depiction architects she explains turned to the skeletal underpinnings of their work and with it the graph as a site of representation operation and political possibility Taking the reader on an enthralling journey through a polyvalent mathematical entity Vardouli combines close readings of graphs architectural manifestations as images tools and infrastructures for design with original archival work on research centers that spearheaded mathematical and computational approaches to architecture Structured thematically Graph Vision weaves together archival findings on influential research groups such as the Land Use Built Form Studies Center at the University of Cambridge the Center for Environmental Structure at Berkeley the Architecture Machine Group at the Massachusetts Institute of Technology among others as well as important figures who led or worked in proximity to these groups including Lionel March Christopher Alexander and Yona Friedman Together this material chronicles the emergence of both a new way of seeing and a new prospect for the discipline that prefigured its digital future of a graph vision Vardouli argues that this vision was one of vacillation toward visual appearance Digital approaches to architecture she ultimately reveals were founded on a profound ambivalence toward the visual realm endemic to mid twentieth century architectural and mathematical modernisms

**An Architecture of Parts: Architects, Building Workers and Industrialisation in Britain 1940 - 1970** Christine Wall, 2013-07-04 This book is unique in describing the history of post war reconstruction from an entirely new perspective by focusing on the changing relationship between architects and building workers It considers individual as well as collective interactions with technical change and in doing so brings together for the first time an extraordinary range of sources including technical archives oral history and visual material to describe the construction process both during and in the decades after the war It focuses on the social aspects of production and the changes in working life for architects and building workers with increasing industrialization in particular analysing the effect on the building process of introducing dimensionally co ordinated components Both architects and building workers have been accused of creating a built environment now popularly discredited architects responsible for poor design and building workers for poor workmanship However many of the structures and ideas underpinning this period of rapid change were revolutionary in their commitment to a complete transformation of the building process An Architecture of Parts adds to the growing literature on changes in the building world during and immediately after the Second World War It is significant both empirically and historically in its examination of the ideas technology and relationships that fired industrialization of the building process in mid century Britain

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

**Instabilities and Potentialities** Chandler Ahrens, Aaron Sprecher, 2019-02-22 Now that information technologies are fully embedded into the design studio *Instabilities and Potentialities* explores our post digital culture to better understand its impact on theoretical discourse and design processes in architecture The role of digital technologies and its ever increasing infusion of information into the design process entails three main shifts in the way we approach architecture its movement from an abstracted mode of codification to the formation of its image the emergence of the informed object as a statistical model rather than a fixed entity and the increasing porosity of the architectural discipline to other fields of knowledge *Instabilities and Potentialities* aims to bridge theoretical and practical approaches in digital architecture

**Frank Lloyd Wright : The Early Years : Progressivism : Aesthetics : Cities** Donald Johnson, 2016-10-14 Frank Lloyd Wright *The Early Years Progressivism Aesthetics Cities* examines Wright s belief that all aspects of human life must embrace and celebrate an aesthetic experience that would thereby lead to necessary social reforms Inherent in the theory was a belief that reform of nineteenth century gluttony should include a contemporary interpretation of its material presence its bulk and space its architectural landscape This book analyzes Wright s innovative profound theory of architecture that drew upon geometry and notions of pure design and the indigenous as put into practice It outlines the design methodology that he applied to domestic and non domestic buildings and presents reasons for the recognition of two Wright Styles and a Wright School The book also studies how his design method was applied to city planning and implications of historical and theoretical contexts of the period that surely influenced all of Wright s community and city planning

**EcoResponsive Environments** Ian Bentley, Soham De, Sue McGlynn, Prachi Rampuria, 2024-04-15 *EcoResponsive Environments* integrates our current knowledge of designing for human needs with a deeper understanding

of natural systems The book offers both a call to action and a comprehensive yet pragmatic framework for practising the art and science of settlement design called EcoResponsive Design Bridging the gap between theory and generic policy on the one hand and design for specific places and sites on the other the book is aimed not only at the professionals involved in planning designing and developing these places but also the wider range of communities interested in creating better spaces for our everyday lives EcoResponsive Design encompasses all scales ranging from the overall form of settlements and the landscapes in which they sit to buildings and the detailed design of public spaces Drawing from projects places and best practices in many different countries and contexts across the world it demonstrates how positive changes at the local scale can be achieved for every single site large or small The book urges a shift in focus from individual specialisms to collaborative actions enabling development stakeholders to negotiate a balance between short term financial viability and longer term environmental and social values

*Recent Trends in Graph Theory & Combinatorics* Dr. K.S. Lakshmi ,Dr. M.S. Malathy ,Dr. S. Indira ,Dr. R.A. Lukshmi,2017-04-07 The seminar was conducted to highlight the vital role of GRAPH THEORY COMBINATORICS in developing mathematical theories for technological advancement and industrial innovation to bridge the gap between academia and industry to provide a platform for sharing the knowledge of the experts in the field among young students and researchers

Spatial Displays and Spatial Instruments Stephen R. Ellis,1989

*On Frank Lloyd Wright's Concrete Adobe* Donald Leslie Johnson,2016-12-05 During the years 1919 into 1925 Frank Lloyd Wright worked on four houses and a kindergarten located in metropolitan Los Angeles using concrete blocks as the main building material The construction system has been described by Wright and others as uniquely molded woven like a textile fabric and perceived as ground breaking truly modern unprecedented Many have attempted to uphold these claims while some thought the house designs borrowed from old exotic buildings For the first time this book brings together Wright s declarations the support of upholders and inferences in order to determine their accuracy and correctness or the possibility of feigned or fictional stories It examines technical developments of concrete blocks by Wright and others before his experiences in Los Angeles began in 1919 It also studies the manner of Wright s design process by an examination of relevant pictorial and textual documents A unique in depth and critical analysis of the houses is set within historical biographical and theoretical contexts Consequently the book explains the impact upon Wright of California contemporaries architects Irving Gill and Rudolph Schindler and their instrumentally profound role upon the course of modernism 1907 1923 In doing so it allows a full appreciation of Wright s Gill s and Schindler s buildings beyond their experiential qualities

Design Methodology and Relationships with Science Marc J de Vries,Nigel Cross,D.P. Grant,2013-03-09 Many business corporations are faced with the challenge of bringing together quite different types of knowledge in design processes knowledge of different disciplines in the natural and engineering sciences knowledge of markets and market trends knowledge of political and juridical affairs This also means a challenge for design methodology as the academic discipline that studies design processes and methods

The aim of the NATO ARW of which this book is the report was to bring together colleagues from different academic fields to discuss this increasing multidisciplinary in the relationship between design and sciences This multidisciplinary made the conference a special event At a certain moment one of the participants exclaimed This is not a traditional design methodology conference Throughout the conference it was evident that there was a need to develop a common language and understanding to enable the exchange of different perspectives on design and its relationship with science The contributions that have been included in this book show these different perspectives the philosophical the historical the engineering perspective and the practical designer s experience *Architectural Design Instruments* Sébastien Bourbonnais,2024-07-23 While it is undeniable that architectural practices have been transformed with the advent of digital technologies they nevertheless continue to occupy an ambiguous or even problematic place within the design process The underlying premise of this book on architectural design instruments is not to see them simply as means to an autonomous end one that is pure and detached from any other technological aspect but instead to see these instruments and their formative abilities as a different way in which architects can approach design We maintain that it is through the very act of experimentation with these instruments that their various potentials are revealed and established It is through such repeated experimentation which is constantly being revised and consolidated that practice is successfully and sustainably transformed This view is less of a wish than it is an observation and as such it can be seen in the various practices that are analyzed in this book

**Advances in Geocomputation** Daniel A. Griffith,Yongwan Chun,Denis J. Dean,2017-01-03 This book contains refereed papers from the 13th International Conference on GeoComputation held at the University of Texas Dallas May 20 23 2015 Since 1996 the members of the GeoComputation the art and science of solving complex spatial problems with computers community have joined together to develop a series of conferences in the United Kingdom New Zealand Australia Ireland and the United States of America The conference encourages diverse topics related to novel methodologies and technologies to enrich the future development of GeoComputation research *Design Computing and Cognition '08* John S. Gero,Ashok K. Goel,2008-09-27 The importance of research and education in design continues to grow For example government agencies are gradually increasing funding of design research and increasing numbers of engineering schools are revising their curricula to emphasize design This is because of an increasing realization that design is part of the wealth creation of a nation and needs to be better understood and taught The continuing globalization of industry and trade has required nations to re examine where their core contributions lie if not in production efficiency Design is a precursor to manufacturing for physical objects and is the precursor to implementation for virtual objects At the same time the need for sustainable development is requiring design of new products and processes and feeding a movement towards design novations and inventions There are now three sources for design research design computing design cognition and human centered information technology The foundations for much of design computing remains artificial intelligence with its focus on ways of representation and on



processes that support simulation and generation Artificial intelligence continues to provide an environment rich paradigm within which design research based on computational constructions can be carried out Design cognition is founded on concepts from cognitive science an even newer area than artificial intelligence It provides tools and methods to study human designers in both laboratory and practice settings

**The Routledge Companion to Contemporary Architectural History** Duanfang Lu,2023-07-31 The Routledge Companion to Contemporary Architectural History offers a comprehensive and up to date knowledge report on recent developments in architectural production and research Divided into three parts Practices Interrogations and Innovations this book charts diversity criticality and creativity in architectural interventions to meet challenges and enact changes in different parts of the world through featured exemplars and fresh theoretical orientations The collection features 29 chapters written by leading architectural scholars and highlights the reciprocity between the historical and the contemporary research and practice and disciplinary and professional knowledge Providing an essential map for navigating the complex currents of contemporary architecture the Companion will interest students academics and practitioners who wish to bolster their understanding of built environments

**formZ Joint Study Report 2004-05** Chris Yessios,2006-01-01 Material published in this edition is compiled by Dr Chris Yessios While no attempt was made to group the articles since each is quite unique they can be viewed under a number of thematic categories There are at least 7 articles that deal more or less directly with the use of digital tools for the generation of innovative forms Another 8 articles present specific building designs and 5 more present specific urban design schemes The common denominator for all is the use of the digital tools to create forms that are distinctly different from traditional forms A group of some 6 papers specifically discusses and compares digital versus analogue methodologies In all cases the former are more persuasive Fabrication or computer aided manufacturing CAM is represented by at least 3 papers while hints of digital fabrication can be found in a number of other papers as well 6 articles are directly concerned with education either the theoretical ties of digital design to ancient principals or how to develop particular skills The only paper from a high school elaborates on this topic Finally there are 5 articles that cannot be grouped with the above categories but would fit in a category possibly labeled miscellaneous theories For example Transforming Habit and Interpreting Babel would belong to such a category

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