

Vol. I

Patrik Schumacher

THE AUTOPOIESIS OF ARCHITECTURE

A New Framework for Architecture

The Autopoiesis Of Architecture

A Gutmann



The Autopoiesis Of Architecture :

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

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 Autopoiesis of Architecture, Volume I Patrik Schumacher,2011-01-18 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 **“The” Autopoiesis of Architecture** Patrik Schumacher,2011 Volume II of *The Autopoiesis of Architecture* In late 2011 John Wiley Sons is publishing the second volume of this work by Patrik Schumacher The new edition extends the scope of the first volume by proposing a new agenda for contemporary architecture that rises to current social and technological challenges Book Jacket *“The” Autopoiesis of Architecture* Patrik Schumacher,2012 **The Architecture of Phantasmagoria** Libero Andreotti,Nadir Lahiji,2016-11-10 In a time of mass mediated modernity the city becomes almost by definition a constitutively mediated city Today more than ever before the omnipresence of media in every sphere of culture is creating a new urban ontology saturating fracturing and exacerbating the manifold experience of city life The authors describe this condition as one of hyper mediation a qualitatively new phase in the city s historical evolution The concept of phantasmagoria has pride of place in their study using it as an all embracing explanatory framework they explore its meanings as a critical category to understand the culture and the

architecture of the contemporary city Andreotti and Lahiji argue that any account of architecture that does not include understanding the role and function of media and its impact on the city in the present tele technological capitalist society is fundamentally flawed and incomplete Their approach moves from Walter Benjamin through the concepts of phantasmagoria and of media as theorized also by Theodor Adorno Siegfried Kracauer and a new generation of contemporary critics towards a new socio critical and aesthetic analysis of the mediated space of the contemporary city

Architecture in Formation Pablo Lorenzo-Eiroa, Aaron Sprecher, 2013-10-08 Architecture in Formation is the first digital architecture manual that bridges multiple relationships between theory and practice proposing a vital resource to structure the upcoming second digital revolution Sixteen essays from practitioners historians and theorists look at how information processing informs and is informed by architecture Twenty nine experimental projects propose radical means to inform the new upcoming digital architecture Featuring essays by Pablo Lorenzo Eiroa Aaron Sprecher Georges Teyssot Mario Carpo Patrik Schumacher Bernard Cache Mark Linder David Theodore Evan Douglass Ingeborg Rocker and Christian Lange Antoine Picon Michael Wen Sen Su Chris Perry Alexis Meier Achim Menges and Martin Bressani Interviews with George Legendre Alessandra Ponte Karl Chu Ciro Najle and Greg Lynn Projects by Diller Scofidio and Renfro Mark Burry Yehuda Kalay Omar Khan Jason Kelly Johnson Future Cities Lab Alejandro Zaera Polo and Maider Llaguno Munitxa Anna Dyson Bess Krietemeyer Peter Stark Center for Architecture Science and Ecology CASE Philippe Rahm Lydia Kallipoliti and Alexandros Tsamis Neeraj Bhatia Infranet Lab Jenny Sabin Lab Studio Luc Courschene Society for Arts and Technology SAT Eisenman Architects Preston Scott Cohen Eiroa Architects Michael Hansmeyer Open Source Architecture Andrew Saunders Nader Tehrani Office dA Satoru Sugihara ATLV and Thom Mayne Morphosis Reiser and Umemoto Roland Snooks Kokkugia Philip Beesley Matias del Campo and Sandra Manninger SPAN Michael Young Eric Goldemberg Monad Studio Francois Roche Ruy Klein Chandler Ahrens and John Carpenter

Handbook of Research on Form and Morphogenesis in Modern Architectural Contexts D'Uva, Domenico, 2018-02-23 As architectural designs continue to push boundaries there is more exploration into the bound shape of architecture within the limits of spaces made for human usability and interaction The Handbook of Research on Form and Morphogenesis in Modern Architectural Contexts provides emerging research on the process of architectural form finding as an effort to balance perceptive efficiency with functionality While highlighting topics such as architectural geometry reverse modeling and digital fabrication this book details the geometric process that forms the shape of a building This publication is a vital resource for scholars IT professionals engineers architects and business managers seeking current research on the development and creation of architectural design

[The Routledge Companion for Architecture Design and Practice](#) Mitra Kanaani, Dak Kopec, 2015-11-06 The Routledge Companion for Architecture Design and Practice provides an overview of established and emerging trends in architecture practice Contributions of the latest research from international experts examine external forces applied to the practice and discipline of architecture Each chapter contains up to date and relevant

information about select aspects of architecture and the changes this information will have on the future of the profession The Companion contains thirty five chapters divided into seven parts Theoretical Stances Technology Sustainability Behaviorism Urbanism Professional Practice and Society Topics include Evidence Based Design Performativity Designing for Net Zero Energy The Substance of Light in Design Social Equity and Ethics for Sustainable Architecture Universal Design Design Psychology Architecture Branding and the Politics of Identity The Role of BIM in Green Architecture Public Health and the Design Process Affordable Housing Disaster Preparation and Mitigation Diversity and many more Each chapter follows the running theme of examining external forces applied to the practice and discipline of architecture in order to uncover the evolving theoretical tenets of what constitutes today s architectural profession and the tools that will be required of the future architect This book considers architecture s interdisciplinary nature and addresses its current and evolving perspectives related to social economic environmental technological and globalization trends These challenges are central to the future direction of architecture and as such this Companion will serve as an invaluable reference for undergraduate and postgraduate students existing practitioners and future architects Systemic Architecture Marco Poletto, Claudia Pasquero, 2013-05-07

This is a manual investigating the subject of urban ecology and systemic development from the perspective of architectural design It sets out to explore two main goals to discuss the contemporary relevance of a systemic practice to architectural design and to share a toolbox of informational design protocols developed to describe the city as a territory of self organization Collecting together nearly a decade of design experiments by the authors and their practice ecoLogicStudio the book discusses key disciplinary definitions such as ecologic urbanism algorithmic architecture bottom up or tactical design behavioural space and the boundary of the natural and the artificial realms within the city and architecture A new kind of real time world city is illustrated in the form of an operational design manual for the assemblage of proto architectures the incubation of proto gardens and the coding of proto interfaces These prototypes of machinic architecture materialize as synthetic hybrids embedded with biological life proto gardens computational power behavioural responsiveness cyber gardens spatial articulation coMachines and fibrous structures remote sensing FUNclouds and communication capabilities Ecological Footprint Grotto Supporting the authors own essays and projects are contributions from key innovators in contemporary architecture and urban design Michael Batty Andrew Hudson Smith Michael Weinstock and Patrik Schumacher **Parametricism 2.0** Patrik Schumacher, 2016-04-25 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

Architecture and Spectacle: A Critique Gevork Hartoonian, 2016-12-05 Focusing on six leading contemporary architects Peter Eisenman Frank Gehry Bernard Tschumi Zaha Hadid Rem Koolhaas and Steven Holl this book puts forward a unique and insightful analysis of neo avant garde architecture It discusses the spectacle and excess which permeates contemporary architecture in reference to the present aesthetic tendency for image making but does so by applying the tectonic of theatricality discussed by the 19th century German architect Gottfried Semper In doing so it breaks new ground by opening up a dialogue between the study of the past and the design of the present The work of each discussed architect is seen as addressing a historiographical problem To this end and this is the second important aspect of this book the chosen buildings are discussed in terms of the thematic of the culture of building the tectonic of column and wall for example rather the formal and this through a discussion that is informed by the latest available theories Having set the aesthetic implication of the processes of the digitalization of architecture the book s conclusion highlights strategies by which architecture might postpone the full consequences of digitalization and thus the becoming of architecture as ornament on its own right

Proceedings of the 2020 DigitalFUTURES Philip F. Yuan, Jiawei Yao, Chao Yan, Xiang Wang, Neil Leach, 2021-01-28 This open access book is a compilation of selected papers from 2020 DigitalFUTURES The 2nd International Conference on Computational Design and Robotic Fabrication CDRF 2020 The book focuses on novel techniques for computational design and robotic fabrication The contents make valuable contributions to academic researchers designers and engineers in the industry As well readers will encounter new ideas about understanding intelligence in architecture

Architecture for the Commons Jose Sanchez, 2020-08-04 Architecture for the Commons dives into an analysis of how the tectonics of a building is fundamentally linked to the economic organizations that allow them to exist By tracing the origins and promises of current technological practices in design the book provides an alternative path one that reconsiders the means of achieving complexity through combinatorial strategies This move requires reconsidering serial production with crowdsourcing and user content in mind The ideas presented will be explored through the design research developed within Plethora Project a design practice that explores the use of video game interfaces as a mechanism for participation and user design The research work presented

throughout the book seeks to align with a larger project that is currently taking place in many different fields The Construction of the Commons By developing both the ideological and physical infrastructure the project of the Commons has become an antidote to current economic practices that perpetuate inequality The mechanisms of the production and governance of the Commons are discussed inviting the reader to get involved and participate in the discussion The current political and economic landscape calls for a reformulation of our current economic practices and alternative value systems that challenge the current market monopolies This book will be of great interest not only to architects and designers studying the impact of digital technologies in the field of design but also to researchers studying novel techniques for social participation and cooperating of communities through digital networks The book connects principles of architecture economics and social sciences to provide alternatives to the current production trends

Animate(d) Architecture Vahid Vahdat, 2024-03-25 At their peak architectural marvels such as the Sagrada Família the Tower of London the Mosque Cathedral of Córdoba and the Eiffel tower had a combined annual visit of almost 16.4 million people The animated icebound castle in Disney's 2019 Frozen had 116.4 million views from one single YouTube trailer in less than 24 hours The spaces of such massively consumed animation have for generations informed the architectural imagination of people across the globe and from very early in their lives Yet not only have the architectural disciplines remained rather absent in the design of these massively consumed spaces architectural theory has likewise failed to articulate a framework to approach the architecture of animation To address this void this book offers an interdisciplinary approach to survey the role of space in animation including in creating humorous moments in early cartoon shorts generating action and suspense in Japanese anime and even stimulating erotic pleasure in pornographic Hentai Exploring the imagined architecture of animation from early motion picture to digital animation and from computer graphics to game engines offers an analytical frame to reconceptualize space An Open Access version of Yuko Yoshida's chapter Animated Embodiments of Witnessing An Architectural Narrative of Silence is available on the Liverpool University Press website

Architectural Technicities Stavros Kousoulas, 2022-07-15 This book poses a simple question how is this architecture possible To respond it will embark on a captivating journey through many singular architectural concepts The entasis of Doric columns Ulysses and desert islands will outline an architectural act that moves beyond representation A ferryman who stutters will present two different types of architectural minds A stilus and a theory of signs will reconsider the ways architects can develop a particular kind of intuition while architectural technicities will bring forth a membranous and territorial understanding of architecture Finally as a melody that sings itself a larval architecture will be introduced bringing space and time together Assisting this endeavour the thought of philosophers like Gilles Deleuze Felix Guattari Gilbert Simondon and Raymond Ruyer will meet the latest developments in fields like affect theory cognitive sciences environmental studies and neuroanthropology Eventually by the end of this book the readers from architecture students and researchers to academics and practitioners with an interest in theory will have

been exposed to a comprehensive and original philosophy of architecture and the built environment

The Architecture of Transgression, 2014-01-13 Transgression suggests operating beyond accepted norms and radically reinterpreting practice by pushing at the boundaries of both what architecture is and what it could or even should be. The current economic crisis and accompanying political social unrest has exacerbated the difficulty into which architecture has long been sliding, challenged by other professions and a culture of conservatism architecture is in danger of losing its prized status as one of the pre eminent visual arts. Transgression opens up new possibilities for practice. It highlights the positive impact that working on the architectural periphery can make on the mainstream as transgressive practices have the potential to reinvent and reposition the architectural profession whether they are subverting notions of progress, questioning roles and mechanisms of production, aligning with political activism, pioneering urban interventions, advocating informal or incomplete development, actively destabilising environments or breaking barriers of taste. In this new dispersed and expanded field of operation the balance of architectural endeavour is shifted from object to process, from service to speculation and from formal to informal in a way that provides both critical and political impetus to proactively affect change.

Contributors: Can Altay, Edward Denison and Guangyu Ren, Kim Dovey, Chris Jenks, David Littlefield, Silvia Loeffler, Alistair Parvin, Louis Rice, Patrik Schumacher and Robin Wilson.

Featured architects: atelier d architecture autog r e Lina Bo Bardi, Construire La Machine, EXYZT, Didier Faustino, Bureau des M sarchitectures, Lacaton Vassal, N55, Catie Newell, Alibi Studio, Wang Shu, Superflex and Bernard Tschumi.

Advances in the Integration of Technology and the Built Environment Jiawen Han, Davide Lombardi, Alessandro Cece, 2025-05-25 This open access book will be a compilation of selected papers from the 2nd International Conference on Architecture Across Boundaries AAB2024. The work focuses on novel integration of technology into the built environment in the areas of space syntax, digital fabrication, computational design, professional models, eco system and urban morphology domains. The content makes valuable contributions to academic researchers and educators in the university and practitioners in the industry who have been working in or with a particular awareness of the different types of boundaries including technological, cultural and physical boundaries in the research on built environments. This book will work as a good reference for academics and professionals conducting interdisciplinary research in an effort to understand and achieve a better hybrid environment.

Alvar Aalto and the Future of Architecture Robert Cody, Angela Amoia, 2022-09-09 In the contemporary practice of architecture digital design and fabrication are emergent technologies in transforming how architects present a design and form a material strategy that is responsible, equitable, sustainable, resilient and forward looking. This book exposes dialogue between history, theory, design, construction, technology and sensory experience by means of digital simulations that enhance the assessment and values of our material choices. It offers a critical look to the past to inspire the future. This new edition looks to Alvar Aalto as the primary protagonist for channeling discussions related to these topics. Architects like ALA Shigeru Ban, 3XN, Peter Zumthor and others also play the role of contemporary guides in this review. The work of Aalto and

selected contemporary architects along with computer modeling software showcase the importance of comprehensive design Organized by the five Ts of contemporary architectural discourse Typology Topology Tectonics Technic Thermodynamics each chapter is used to connect history through Aalto and develop conversations concerning historical and contemporary models digital simulations ecological and passive active material concerns construction and fabrications and healthy sensorial environments Written for students and academics this book bridges knowledge from academia into practice and vice versa to help architects become better stewards of the environment make healthier and more accountable buildings and find ways to introduce policy to make technology a critical component in thinking about and making architecture **Tools for Ideas** Christian Gänschert, 2020-10-26 This reference work on the core competence of architects and designers provides a thorough and considered overview of the tools and theories means and methods and practices and possibilities of creative design In this substantially expanded edition a review of recent developments since the first edition has been added the chapters on digital tools have been updated and a new extensive practice section describes the foundations of digital research based processes and social agendas in design The author demonstrates compellingly that design is a synthesis of creative technical and architectural skills coupled with academic research and reflection Enlightening Christian Thomas on the first edition Insight into the craft of design Light in the darkness of how ideas take shape Jesko Fezer

The Autopoiesis Of Architecture : Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have enthralled audiences this year. The Autopoiesis Of Architecture : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. The Autopoiesis Of Architecture : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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