

Ulrich Pfammatter

The Making of the Modern Architect and Engineer

The origins and development
of a scientific and
individually oriented education



Birkhäuser

The Making Of The Modern Architect And Engineer

Eric Bellin



The Making Of The Modern Architect And Engineer:

The Making of the Modern Architect and Engineer Ulrich Pfammatter, 2000 The very first school for architecture came into being when the Ecole Polytechnique opened its gates in Paris in 1794 and with this the profession of the architect as we understand it today was born Using previously unpublished texts and visual material Ulrich Pfammatter traces in fascinating detail the origins and subsequent development of the scientific and industrial training of architects and engineers He explores the growth of the architecture schools in Paris Karlsruhe Zürich London and the USA and by considering important exponents such as Durand Reynaud Mary Weinbrenner Semper Dufour Klenze Eiffel and Jenney he provides a detailed exposition of this important chapter in civil engineering and architectural history *Architects and Engineers* Roland May, 2022-10-24 In the first decades of the 20th century civil engineers were widely seen as a role model for future architects Their role within the contemporary architecture movements however was hardly discussed To this day even fundamental questions about collaborations rivalries or conflicts between the two sister disciplines still await answers This volume brings together contributions by international scholars on the cooperation between architects and civil engineers in various countries in the interwar period By offering both insights into national peculiarities and new reflections on the general nature character and significance of such joint efforts it opens exciting new perspectives on the modern building culture of Europe and beyond Innovative tools and design strategies. The case of Eclectic Architecture in Buenos Aires Garrido, Federico Andrés, 2023-05-26 The research deals with a question about Architecture and its design strategies combining historical information and digital tools Design strategies are historically defined they rely on geometry context building technologies and other factors The study of Architecture's own history particularly in the verge of technological advancements like the introduction of new materials or tools may shed some light on how to internalize digital tools like parametric design and digital fabrication **Detailing Worlds** Eric Bellin, 2025-02-06 In the 21st century the word detail appears constantly in discussions of building and we use it in many different ways yet just over 250 years ago detail meant nothing at all particular to the work of architects engineers or builders Detailing Worlds is the first book to examine the origins and evolution of detail as a concept with meanings specific to practices of building By exploring how past meanings and roles were ascribed to detail in different worlds of practice those of academics technicians students engineers and architects Detailing Worlds looks to the future illuminating the ways disciplinary knowledge and the concepts on which it is based evolve and change over time It is a story about how such concepts are slowly but constantly reconceived redefined and transformed by individuals as they interact with one another and how this process is shaped by the ever changing sociocultural and technological dimensions of the world around us Richly illustrated with more than 200 images including figures from rare texts archival student drawings and practitioners construction documents from the 18th through 20th centuries Detailing Worlds ventures to tell the history of a disciplinary specific idea and offer insights about how we think

and speak about the practice of building today *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 **Building Theories** Franca Trubiano, 2022-11-25

Building Theories speaks to the value of words in architecture It addresses the author's fascination with the voices of architects engineers builders and craftspeople whose ideas about building have been captured in text It discusses the content of treatises essays articles and letters by those who have been throughout history committed to the art of building In this **Building Theories** argues for the return of a practice of architectural theory that is set amongst building buildings and builders This journey of close reading reinterprets the words of Vitruvius Alberti de L Orme Le Camus de Mézières Boullée Laugier Rondelet Semper Viollet le Duc Hebsch Brechtier Berlage Muthesius Wagner Behrendt Gropius and Arup With chapters dedicated to texts from antiquity the Renaissance and the nineteenth century and with a critical eye on architectural theory popularized in the Anglo Saxon world post 1968 readers are introduced to a wider more inclusive definition of architectural ideas **Building Theories** considers how contemporary scholarship has steered away from the topic of building in its reluctance to admit that both design and construction are central to its concerns In response it argues for a realignment of architecture with the concept of techné with a dual commitment to fabrica e ratio with a productive return to l'art de bien bastir with the accurate translation of the term Baukunst and with an appeal to the architect's composite mind Students practitioners and educators will identify in **Building Theories** ways of thinking that strive

for the integration of design with construction reject the supposed primacy of the former over the latter recognize how aesthetics are an insufficient scaffold for subtending the subject of architectural ethics and accept without reservation that material transformations have always been at the origins of built form

Assembling the Architect George Barnett Johnston, 2020-01-23 *Assembling the Architect* explores the origins and history of architectural practice It unravels the competing interests that historically have structured the field and cultivates a deeper understanding of the contemporary profession Focusing on the period 1870 to 1920 when the foundations were being laid for the U S architectural profession that we recognize today this study traces the formation and standardization of the fundamental relationships among architects owners and builders as codified in the American Institute of Architects very first Handbook of Architectural Practice It reveals how these archetypal roles have always been fluid each successfully redefining their own agency with respect to the others in the constantly shifting political economy of building Far from being a purely historical study the book also sheds light on today s digitally enabled profession Contemporary architectural tools and disciplinary ideals continue to be shaped by the same fundamental tensions and emergent modes of practice such as BIM Building Information Modelling and IPD Integrated Project Delivery represent the realization of programs and agendas that have been over a century in play Essential reading for professional practice courses as a contextual and historical companion to the Handbook *Assembling the Architect* provides a critical perspective of the profession that is fundamental to understanding current architectural practice

Architect and Engineer of California, 1921 **Architect and Engineer**, 1905 **The Michigan Architect and Engineer**, 1929 **Critical Care** Angelika Fitz, Elke Krasny, Architekturzentrum Wien, 2019-06-18 How architecture and urbanism can help to care for and repair a broken planet essays and illustrated case studies Today architecture and urbanism are capital centric speculation driven and investment dominated Many cannot afford housing Austerity measures have taken a disastrous toll on public infrastructures The climate crisis has rendered the planet vulnerable even uninhabitable This book offers an alternative vision in architecture and urbanism that focuses on caring for a broken planet Rooted in a radical care perspective that always starts from the given in the midst of things this edited collection of essays and illustrated case studies documents ideas and practices from an extraordinarily diverse group of contributors Focusing on the three crisis areas of economy ecology and labor the book describes projects including village reconstruction in China irrigation in Spain community land trust in Puerto Rico revitalization of modernist public housing in France new alliances in informal settlements in Nairobi and the redevelopment of traditional building methods in flood areas in Pakistan Essays consider such topics as ethical architecture land policy creative ecologies diverse economies caring communities and the exploitation of labor Taken together these case studies and essays provide evidence that architecture and urbanism have the capacity to make the planet livable again Essays by Mauro Baracco Sara Brolund de Carvalho Jane Da Mosto Angelika Fitz H l ne Frichot Katherine Gibson Mauro Gil Fournier Esquerre Valeria Graziano Gabu Heindl Elke Krasny Lisa Law Ligia Nobre Meike

Schalk Linda Tegg Ana Carolina Tonetti Kim Trogal Joan C Tronto Theresa Williamson Louise Wright Case studies aaa atelier d architecture autog r e Ayuntamiento BCN Kashef Mahboob Chowdhury Urbana C clics Space Community Ecology CAVAA arquitectes Care Repair Tandems Vienna including Gabu Heindl Zissis Kotionis Phoebe Giannisi rotor Meike Schalk Sara Brolund de Carvalho Cristian Stefanescu Rosario Talevi and many others Colectivo 720 Estudio Teddy Cruz Fonna Forman EAHR Emergency Architecture Human Rights Fideicomiso de la Tierra del Ca o Mart n Pe a CLT Anna Heringer Anupama Kundoo KDI Kounkuey Design Initiative Lacaton Vassal Yasmeeen Lari muf architecture art Paulo Mendes da Rocha MMBB RUF Rural Urban Framework Studio Vlay Streeruwitz De Vylder Vinck Taillieu Xu Tiantian DnA_Design and Architecture ZUsammenKUNFT Berlin Copublished with Architekturzentrum Wien **Precision in Architecture** Mhairi McVicar, 2019-05-13 This book offers a detailed insight into the desire for and consequences of precise communications in the daily life of contemporary architectural practice through close readings of constructed architectural details by Sigurd Lewerentz Caruso St John Architects Mies van der Rohe and OMA In the professionalised context of the contemporary architectural profession precise communications drawings specifications letters faxes and emails are charged with the complex task of translating architectural intent into a neutral and quantifiable language which is expected to guarantee an exact match between the architects intentions and the constructed result Yet as any architectural practitioner will know it is doubtful whether the construction of any architectural project may ever exactly match all written and drawn predictions This book challenges claims to certainty which have been attributed to such communications from the mid nineteenth century onwards and critiques ongoing expectations of certainty in contemporary architectural production Van Nostrand's Engineering Magazine ,1879 Structures and Architecture Paulo J. da Sousa Cruz, 2016-10-14 Although the disciplines of architecture and structural engineering have both experienced their own historical development their interaction has resulted in many fascinating and delightful structures To take this interaction to a higher level there is a need to stimulate the inventive and creative design of architectural structures and to persuade architects and structural engineers to further collaborate in this process exploiting together new concepts applications and challenges This set of book of abstracts and full paper searchable CD ROM presents selected papers presented at the 3rd International Conference on Structures and Architecture Conference ICSA2016 organized by the School of Architecture of the University of Minho Guimar es Portugal July 2016 to promote the synergy in the collaboration between the disciplines of architecture and structural engineering The set addresses all major aspects of structures and architecture including building envelopes comprehension of complex forms computer and experimental methods concrete and masonry structures educating architects and structural engineers emerging technologies glass structures innovative architectural and structural design lightweight and membrane structures special structures steel and composite structures the borderline between architecture and structural engineering the history of the relationship between architects and structural engineers the tectonics of architectural solutions the use of new

materials timber structures and more The contributions on creative and scientific aspects of the conception and construction of structures on advanced technologies and on complex architectural and structural applications represent a fine blend of scientific technical and practical novelties in both fields This set is intended for both researchers and practitioners including architects structural and construction engineers builders and building consultants constructors material suppliers and product manufacturers and other experts and professionals involved in the design and realization of architectural structural and infrastructural projects

Structures and Architecture Paulo J. Cruz, 2016-10-14 Although the disciplines of architecture and structural engineering have both experienced their own historical development their interaction has resulted in many fascinating and delightful structures To take this interaction to a higher level there is a need to stimulate the inventive and creative design of architectural structures and to persuade architects and structural engineers to further collaborate in this process exploiting together new concepts applications and challenges This set of book of abstracts and full paper searchable CD ROM presents selected papers presented at the 3rd International Conference on Structures and Architecture Conference ICSA2016 organized by the School of Architecture of the University of Minho Guimar es Portugal July 2016 to promote the synergy in the collaboration between the disciplines of architecture and structural engineering

History of the Modern Styles of Architecture : Being a Sequel to the Handbook of Architecture James Fergusson, 1862

The Builder, 1860

A History of Architecture in All Countries James Fergusson, 1862

The Civil Engineer and Architect's Journal, 1839

Making Modern Paris Christopher Curtis Mead, 2012 Investigates how architecture technology politics and urban planning came together in French architect Victor Baltard s creation of the Central Markets of Paris Presents a case study of the historical process that produced modern Paris between 1840 and 1870

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