

The Architecture of Industry

**Changing Paradigms in
Industrial Building and Planning**

Edited by Mathew Aitchison

Studies in Architecture

The Architecture Of Industry Ashgate Studies In Architecture

Carolyn White



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The Architecture of Industry Dr Mathew Aitchison, 2014-11-28 Through a series of case studies this book documents the changing nature of industrial building and planning from the beginning of the twentieth century to the beginning of the twenty first century Drawing on research from the United States Europe and Australia this collection of essays highlights key moments in industrial architecture and planning representative of the wider paradigms in the field Areas of analysis include industrial production hydroelectricity aerospace logistics finance scientific research and mining This richly illustrated collection will be of interest for a wide range of built environment studies incorporating findings from both historical and theoretical scholarship and design research

The Architecture of Industry Mathew Aitchison, 2016-03-16 From the Rust Belt to Silicon Valley the intersection between architecture and industry has provided a rich and evolving source for historians of architecture In a historical context industrial architecture evokes the smoking factories of the nineteenth century or Fordist production complexes of the twentieth century This book documents the changing nature of industrial building and planning from the end of the nineteenth century to the beginning of the twenty first century Drawing on research from the United States Europe and Australia this collection of essays highlights key moments in industrial architecture and planning representative of the wider paradigms in the field Areas of analysis include industrial production factories hydroelectricity aerospace logistics finance scientific research and mining The selected case studies serve to highlight architectural and planning innovations in industry and their contributions to wider cultural and societal currents This richly illustrated collection will be of interest for a wide range of built environment studies incorporating findings from both historical and theoretical scholarship and design research

Architectural Projects of Marco Frascari Sam Ridgway, 2016-03-09 Marco Frascari believed that architects should design thoughtful buildings capable of inspiring their inhabitants to have pleasurable and happy lives A visionary Italian architect academic and theorist Frascari is best known for his extraordinary texts which explore the intellectual theoretical and practical substance of the architectural discipline As a student in Venice during the late 1960s Frascari was taught and mentored by Carlo Scarpa Later he moved to North America with his family where he became a fulltime academic Throughout his academic career he continued to work on numerous architectural projects including exhibitions competition entries and designs for approximately 35 buildings a small number of which were built As a means of re constructing the theatre of imaginative theory within which these buildings were created Sam Ridgway draws on a wide selection of Frascari s texts including his richly poetic book *Monsters of Architecture* to explore the themes of representation demonstration and anthropomorphism Three of Frascari s delightful buildings are then brought to light and interpreted revealing a sophisticated and interwoven relationship between texts and buildings

In-Between: Architectural Drawing and Imaginative Knowledge in Islamic and Western Traditions Hooman Koliji, 2016-03-09 Contemporary technical architectural drawings in establishing a direct relationship between the drawing

and its object tend to privilege the visible physical world at the expense of the invisible intangible ideas and concepts including that of the designer's imagination. As a result, drawing may become a utilitarian tool for documentation devoid of any meaningful value in terms of a kind of knowledge that could potentially link the visible and invisible. This book argues that design drawings should be recognized as intermediaries mediating between the world of ideas and the world of things spanning the intangible and tangible. The notion of the Imaginal as an intermediary between the invisible and visible is discussed, showing how architectural drawings lend themselves to this notion by performing as creative agents contributing not only to the physical world but also penetrating the realm of concepts. The book argues that this in-between quality to architectural drawing is essential and that it is critical to perceive drawings as subtle bodies that hold physical attributes for example form, proportion, color, highly evocative yet with no matter. Focusing on Islamic geometric architectural drawings both historical and contemporary, it draws on key philosophical and conceptual notions of imagination from the Islamic tradition as these relate to the creative act. In doing so, this book not only makes important insights into the design process and act of architectural representation but more broadly it adds to debates on philosophies of the imagination linking both Western and Islamic traditions.

The Material Imagination Matthew Mindrup, 2016-03-03. In recent years, architectural discourse has witnessed a renewed interest in materiality under the guise of such familiar tropes as material honesty, form finding, or digital materiality. Motivated in part by the development of new materials and an increasing integration of designers in fabricating architecture, a proliferation of recent publications from both practice and academia explore the pragmatics of materiality and its role as a protagonist of architectural form. Yet as the ethos of material pragmatism gains more popularity, theorizations about the poetic imagination of architecture continue to recede. Compared to an emphasis on the design of visual form in architectural practice, the material imagination is employed when the architect thinks matter dreams in it, lives in it, or in other words, materializes the imaginary. As an alternative to a formal approach in architectural design, this book challenges readers to rethink the reverie of materials in architecture through an examination of historical precedent, architectural practice, literary sources, philosophical analyses, and everyday experience. Focusing on matter as the premise of an architect's imagination, each chapter identifies and graphically illustrates how material imagination defines the conceptual premises for making architecture.

The City Crown by Bruno Taut Matthew Mindrup, Ulrike Altenmüller-Lewis, 2016-03-09. This book is the first English translation of the German architect Bruno Taut's early twentieth-century anthology *Die Stadtkrone* *The City Crown*. Written under the influence of World War I, Taut developed *The City Crown* to promote a utopian urban concept where people would live in a garden city of apolitical socialism and peaceful collaboration around a single purpose-free crystalline structure. Taut's proposal sought to advance the garden city idea of Ebenezer Howard and rural aesthetic of Camillo Sitte's urban planning schemes by merging them with his own city crown concept. The book also contains contributions by the Expressionist poet Paul Scheerbarth, the writer and politician Erich Baron

and the architectural critic Adolf Behne Although the original German text was republished in 2002 only the title essay of *The City Crown* has previously been translated into English This English translation of Taut's full anthology complete with all illustrations and supplementary texts fills a significant gap in the literature on early modern architecture in Germany and the history of urban design It includes a translator's preface introduction and afterword to accompany the original composition of essays poems designs and images These original texts are accompanied by illustrations of Taut's own designs for a utopian garden city of 300 000 inhabitants and over 40 additional historic and contemporary examples The new preface to *The City Crown* explains the premise for the English translation of Taut's anthology its organization and the approaches taken by the translators to maintain the four different voices included in the original work Matthew Mindrup's introduction critically examines the professional and intellectual developments leading up to and supporting Bruno Taut's proposal to advance the English garden city concept with a centralized communal structure of glass the city crown Through the careful examination of original

Industries of Architecture Katie Lloyd Thomas, Tilo Amhoff, Nick Beech, 2015-11-06 At a time when the technologies and techniques of producing the built environment are undergoing significant change this book makes central architecture's relationship to industry Contributors turn to historical and theoretical questions as well as to key contemporary developments taking a humanities approach to the *Industries of Architecture* that will be of interest to practitioners and industry professionals as much as to academic researchers teachers and students How has modern architecture responded to mass production How do we understand the necessarily social nature of production in the architectural office and on the building site And how is architecture entwined within wider fields of production and reproduction finance capital the spaces of regulation and management techniques What are the particular effects of techniques and technologies and above all their inter relations on those who labour in architecture the buildings they produce and the discursive frameworks we mobilise to understand them

Architecture and Empire in Jamaica Louis Nelson, 2016-03-15 Through Creole houses and merchant stores to sugar fields and boiling houses Jamaica played a leading role in the formation of both the early modern Atlantic world and the British Empire *Architecture and Empire in Jamaica* offers the first scholarly analysis of Jamaican architecture in the long 18th century spanning roughly from the Port Royal earthquake of 1692 to Emancipation in 1838 In this richly illustrated study which includes hundreds of the author's own photographs and drawings Louis P Nelson examines surviving buildings and archival records to write a social history of architecture Nelson begins with an overview of the architecture of the West African slave trade then moves to chapters framed around types of buildings and landscapes including the Jamaican plantation landscape and fortified houses to the architecture of free blacks He concludes with a consideration of Jamaican architecture in Britain By connecting the architecture of the Caribbean first to West Africa and then to Britain Nelson traces the flow of capital and makes explicit the material economic and political networks around the Atlantic

The Recovery of Natural Environments in Architecture C.

Alan Short, 2017-01-20 *The Recovery of Natural Environments in Architecture* challenges the modern practice of sealing up and mechanically cooling public scaled buildings in whichever climate and environment they are located. This book unravels the extremely complex history of understanding and perception of air: bad air, miasmas, airborne pathogens, beneficial thermal conditions, ideal climates, and climate determinism. It uncovers inventive and entirely viable attempts to design large buildings: hospitals, theatres, and academic buildings through the 19th and early 20th centuries, which use the configuration of the building itself and a shrewd understanding of the natural physics of airflow and fluid dynamics to make good, comfortable interior spaces. In exhuming these ideas and reinforcing them with contemporary scientific insight, the book proposes a recovery of the lost art and science of making naturally conditioned buildings. *Construction Research at NIOSH*, Institute of Medicine, National Research Council, Division on Engineering and Physical Sciences, Board on Infrastructure and the Constructed Environment, Committee to Review the NIOSH Construction Research Program, 2009-04-12.

The National Institute for Occupational Safety and Health (NIOSH) conducts construction-relevant research activities. From 1996 through 2005, the program focused on four research goals: reducing traumatic injuries and fatalities; reducing exposure to health hazards; reducing major risks associated with musculoskeletal disorders; increasing the understanding of construction industry attributes and factors for improving health and safety outcomes. In this book, the National Research Council evaluates the relevance and impact of the NIOSH Construction Research Program in terms of its research priorities and its connection to improvements in the protection of workers in the workplace. It also assesses the program's identification and targeting of new research areas to identify emerging research issues and to provide advice on ways that the program might be strengthened. The book finds that the efforts of the Construction Research Program have made meaningful contributions to improving construction worker safety and health and provides overarching and specific recommendations for continuing progress. While NIOSH cannot set and enforce research-based standards on its own, the program can be expected to help reduce construction workplace fatalities, injuries, and illnesses through its research, its research dissemination, and transfer into practice. *Architecture in an Age of Uncertainty*, Dr Benjamin Flowers, 2014-10-28.

After two decades which saw the construction industry flourish, has come a sudden period of instability where architecture firms have been jettisoning employees at an unprecedented rate as building projects dry up. This edited volume brings together scholars, critics, and architects to discuss the present state of uncertainty in the practice and discipline of architecture. The chapters are organized into three main areas of inquiry: economics, practice, and technology. Within this larger framework, authors explore issues of security, ecological design, disaster architecture, the future of architectural practice, and the ethical obligations of the social practice of design. **Candide. Journal for Architectural Knowledge**, Axel Sowa, Nicholas Boyarsky, Lard Buurman, Davide Deriu, Ela Kacel, 2021-02-25. Die zwölfte Ausgabe von *Candide* widmet sich dem Thema Visual Urbanism. Ein vollkommen neues Forschungsfeld. Fotograf:innen und Wissenschaftler:innen experimentierten mit anthropologischen, kulturwissenschaftlichen

soziologischen und geografischen Methoden für eine Reflexion über die meist unkritische Nutzung von Bildern des öffentlichen Raums. Candide 12 sucht Möglichkeiten diese Ergebnisse in Architektur und Stadtplanung zu integrieren. Dabei beantworten Autorinnen dringende Fragen wie nach der Nutzbarmachung fotografischer Bilder für die Architektur und vice versa.

Eco-Homes Doctor Jenny Pickerill, 2016-01-15 It is widely understood that good affordable eco housing needs to be at the heart of any attempt to mitigate or adapt to climate change. This is the first book to comprehensively explore eco housing from a geographical, social and political perspective. It starts from the premise that we already know how to build good eco houses and we already have the technology to retrofit existing housing. Despite this, relatively few eco houses are being built. Featuring over thirty case studies of eco housing in Britain, Spain, Thailand, Argentina and the United States, *Eco Homes* examines the ways in which radical changes to our houses, such as making them more temporary, using natural materials or relying on manual heating and ventilation systems, require changes in how we live. As such, it argues it is not lack of technology or political will that is holding us back from responding to climate change, but deep-rooted cultural and social understandings of our way of life and what we expect our houses to do for us. Victorian Perceptions of Renaissance Architecture Dr Katherine Wheeler, 2014-05-28 In the mid 1880s an influential British architectural journal published an article characterizing Renaissance architecture as a corruption of classical architecture. By the turn of the century, however, the same journal praised the Renaissance architect Filippo Brunelleschi as the Christopher Columbus of modern architecture. Relevant for architectural historians, literary scholars and those in Victorian studies, this book examines the conflicting late nineteenth-century characterizations of Renaissance architecture and reassesses them within the formation of a modern British architectural profession. *A Cultural History of Objects in the Age of Industry* Carolyn White, 2022-08-31 *A Cultural History of Objects in the Age of Industry* covers the period 1760 to 1900, a time of dramatic change in the material world as objects shifted from the handmade to the machine-made. The revolution in making and in consuming the things which were made impacted on lives at every scale, from body to home to workplace to city to nation. Beyond the explosion in technology, scientific knowledge, manufacturing, trade and museums, changes in class structure, politics, ideology and morality all acted to transform the world of objects. The 6-volume set of the *Cultural History of Objects* examines how objects have been created, used, interpreted and set loose in the world over the last 2500 years. Over this time, the West has developed particular attitudes to the material world at the centre of which is the idea of the object. The themes covered in each volume are objecthood, technology, economic objects, everyday objects, art, architecture, bodily objects, object worlds. Carolyn White is Professor at the University of Nevada, Reno, USA. Volume 5 in the *Cultural History of Objects* set. General Editors: Dan Hicks and William Whyte. Travel, Space, Architecture Jilly Traganou, Dr Miodrag Mitrasinovic, 2012-11-28 *Travel Space Architecture* defines a new theoretical territory in architectural and urban scholarship that frames the processes of spatial production through the notion of travel. By aligning architectural thinking with current critical theory debates, this book

explores whether dissociating culture from place and identity and detaching the idea of architecture from both can reframe our understanding of spatial and architectural practices The book presents seventeen key case studies from a diverse range of perspectives including historical theoretical and praxis based and range from interrogations of architectural travel and notions of belonging and nationhood to challenging established geopolitical hierarchies Developing Iran Hamidreza Mahboubi Soufiani, 2023-10-20 This book examines the emergence of modern company towns in Iran by delineating the architectural political and industrial histories of three distinct resource based company town projects built in association with the Big Three powers of World War II The book's narrative builds upon a tripartite research design that chronologically traces the formation and development of the oil steel and copper industries respectively favoured by Great Britain the Soviet Union and the United States in this part of the world By applying three sets of comparative studies the book provides critical vantage points to three different ideological design paradigms postcolonial regionalism socialist universalism and rationalist modern nation building From a global political context the book contributes to the disclosure of new information about the geopolitical confrontation of these three nations in the Global South to increase their sphere of influence after the Second World War Furthermore it demonstrates how postwar architectural modernism was adopted by each power and adapted to their ideological mind frame to fulfil distinct social cultural political and economic targets This book examines multiple interconnections between architecture politics and industrial development by adopting a transdisciplinary approach based on comprehensive fieldwork site surveys and the analysis of original multilingual documents As such it will be of interest to researchers and students of architecture history international relations and Middle Eastern studies **The Routledge**

Companion to Art Deco Bridget Elliott, Michael Windover, 2019-06-25 Scholarly interest in Art Deco has grown rapidly over the past fifty years spanning different academic disciplines This volume provides a guide to the current state of the field of Art Deco research by highlighting past accomplishments and promising new directions Chapters are presented in five sections based on key concepts migration public culture fashion politics and Art Deco's afterlife in heritage restoration and new media The book provides a range of perspectives on and approaches to these issues as well as to the concept of Art Deco itself It highlights the slipperiness of Art Deco yet points to its potential to shed new light on the complexities of modernity

Architecture, Space and Memory of Resurrection in Northern Ireland Mohamed Gamal Abdelmonem, Gehan Selim, 2019-04-25 Northern Ireland has a complex urbanism with multilayered socio spatial politics In this environment issues of communication self representation and expression of identity are central to the experience of urban space and architecture where the dichotomy of division and shared living are spatially exercised in everyday life Unlike other studies in the area this book focuses on the everyday experiences of local communities in both public and private spheres issues of shareness challenging conventional approaches to divided cities The book aims to layer its narratives of architectural and social developments as an urban experience in post conflict settings over the past two decades *Geelong's Changing*

Landscape David Jones, Phillip Roös, 2019-11-01 Geelong's Changing Landscape offers an insightful investigation of the ecological history of the Geelong and Bellarine Peninsula region. Commencing with the penetrating perspectives of Wadawurrung Elders, chapters explore colonisation and post World War II industrial development through to the present challenges surrounding the ongoing urbanisation of this region. Expert contributors provide thoughtful analysis of the ecological and cultural characteristics of the landscape, the impact of past actions and options for ethical future management of the region. This book will be of value to scientists, engineers, land use planners, environmentalists and historians.

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