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Architectural Colossi and the Human Body Edition Axel Menges

A hand-drawn guide to architectural styles throughout history Architectural Styles is an incomparable guide to architectural styles across the centuries and around the world. Modeled after an architect's plain air sketchbook, the volume features hundreds of detailed drawings by esteemed architectural illustrator Robbie Polley alongside incisive and informative descriptions. This unique guidebook takes readers from Europe and the Americas to Egypt, China, and India. It covers a host of historical and contemporary architectural styles, from ancient and classical to Pre-Columbian, Romanesque, Renaissance, Palladian, art nouveau, Brutalist, and biomorphic. It describes the histories and characteristics of the building traditions of each era and region of the world, and looks at key architectural elements such as buttresses, spandrels, curtain walls, and oculi. The book also includes a section on building parts—from domes and columns to towers, arches, roofs, and vaulting—along with a detailed glossary and bibliography. Comprehensive and authoritative, Architectural Styles is an essential resource for architects and designers and a must-have illustrated guide for anyone interested in architecture or drawing.

Innovations in Hospital Architecture Rodopi

The human body has been used as both a model and metaphor in architecture since antiquity. This book explores how it has been an inspiration for the exterior form of architectural colossi through the years. It considers the body as a source of architectural and artistic representation and in doing so explores the results of such practices in colossal sculptures and architectural praxis within a philosophical discourse of space, time and media. Architectural Colossi and the Human Body discusses the role of Platonic and Cartesian philosophy and how philosophers such as Heidegger and Merleau-Ponty, and theoreticians such as Frascari and Pallasmaa, have seen, described and analysed the human body and the role of architecture and perception. Drawing upon three key case studies and by employing theoretical ideas of Venturi and others, this book will provide an understanding of the role of anthropomorphism and the relation and use of the human body with reference to selected architects and artists.

A History Springer Nature

Throughout history, nature has served as an inspiration for architecture and designers have tried to incorporate the harmonies and patterns of nature into architectural form. Alberti, Charles Renee Macintosh, Frank Lloyd Wright, and Le Corbusier are just a few of the well-known figures who have taken this approach and written on this theme. With the development of fractal geometry--the study of intricate and interesting self-similar mathematical patterns--in the last part of the twentieth century, the quest to replicate nature's creative code took a stunning new turn. Using computers, it is now possible to model and create the organic, self-similar forms of nature in a way never previously realized. In *Fractal Architecture*, architect James Harris presents a definitive, lavishly illustrated guide that explains both the "how" and "why" of incorporating fractal geometry into architectural design.

Building for Life Routledge

This book provides the readers with a timely guide to the application of biomimetic principles in architecture and engineering design. As a result of a combined effort by two internationally recognized authorities, the biologist Werner Nachtigall and the architect Göran Pohl, the book describes the principles which can be used to compare nature and technology, and at the same time it presents detailed explanations and examples showing how biology can be used as a source of inspiration and "translated" in building and architectural solutions (biomimicry). Even though nature cannot be directly copied, the living world can provide architects and engineers with a wealth of

analogues and inspirations for their own creative designs. But how can analysis of natural entities give rise to advanced and sustainable design? By reporting on the latest bionic design methods and using extensive artwork, the book guides readers through the field of nature-inspired architecture, offering an extraordinary resource for professional architects, engineers, designers and urban planners, as well as for university teachers, researchers and students. Natural evolution is seen throughout the book as a powerful resource that can serve architecture and design by providing innovative, optimal and sustainable solutions.

Local Architecture Intellect Books

Bionics means learning from the nature for the development of technology. The science of "bionics" itself is classified into several sections, from materials and structures over procedures and processes until evolution and optimization. Not all these areas, or only a few, are really known in the public and also in scientific literature. This includes the Lotus-effect, converted to the contamination-reduction of facades and the shark-shed-effect, converted to the resistance-reduction of airplanes. However, there are hundreds of highly interesting examples that contain the transformation of principles of the nature into technology. From the large number of these examples, 250 were selected for the present book according to "prehistory", "early-history", "classic" and "modern time". Most examples are new. Every example includes a printed page in a homogeneous arrangement. The examples from the field "modern time" are joint in blocks corresponding to the sub-disciplines of bionics.

The Evolution of Designs U of Minnesota Press

This book explores the broad issue of Postmodernism and tells the story of the movement that has changed the face of architecture over the last forty years. In this completely rewritten edition of his seminal work, Charles Jencks brings the history of architecture up to date and shows how demands for a new and complex architecture, aided by computer design, have led to more convivial, sensuous, and articulate buildings around the world.

Between Nature and Theory Routledge

More than fifteen years after the success of the first edition, this sweeping introduction to the history of architecture in the United States is now a fully revised guide to the major developments that shaped the environment from the first Americans to the present, from the everyday vernacular to the high style of aspiration. Eleven chronologically organized chapters chart the social, cultural, and political forces that shaped the growth and development of American towns, cities, and suburbs, while providing full description, analysis, and interpretation of buildings and their architects. The second edition features an entirely new chapter detailing the green architecture movement and architectural trends in the 21st century. Further updates include an expanded section on Native American architecture and contemporary design by Native American architects, new discussions on architectural education and training, more examples of women architects and designers, and a thoroughly expanded glossary to help today's readers. The art program is expanded, including 640 black and white images and 62 new color images. Accessible and engaging, *American Architecture* continues to set the standard as a guide, study, and reference for those seeking to better understand the rich history of architecture in the United States.

American Architecture University of Chicago Press

The EAAE/ARCC International Conference, held under the aegis of the EAAE (European Association for Architectural Education) and of the ARCC (Architectural Research Centers Consortium), is a conference organized every other year, in collaboration with one of the member schools / universities of those associations, alternatively in North America or in Europe. The EAAE/ARCC Conferences began at the North Carolina State University College of Design, Raleigh with a conference on Research in Design Education (1998); followed by conferences in Paris (2000), Montreal (2002), Dublin (2004), Philadelphia (2006), Copenhagen (2008), Washington (2010), Milan (2012) and Honolulu (2014). The conference discussions focus on research experiences in the field

of architecture and architectural education, providing a critical forum for the dissemination and engagement of current ideas from around the world.

Designing and Understanding the Human-Nature Connection Routledge

Non-Plan explores ways of involving people in the design of their environments - a goal which transgresses political categories of 'right' and 'left'. Attempts to circumvent planning bureaucracy and architectural inertia have ranged from free-market enterprise zones, to self-build housing, and from squatting to sophisticated technologies of prefabrication. Yet all have shared in a desire to let people shape the built environment they want to live and work in. How can buildings better reflect the needs of their inhabitants? How can cities better facilitate the work and recreation of their many populaces? Modernism had promised a functionalist approach to resolving the architectural needs of the twentieth-century, yet the design of cities and buildings often appears to confound the needs of those who use them - their design and layout being highly regulated by restrictive legislation, planning controls and bureaucracy. Non-Plan considers the theoretical and conceptual frameworks within which architecture and urbanism have sought to challenge entrenched boundaries of control, focusing on the architectural history of the post-war period to the present day. This provocative book will be of interest to architects, planners and students of architecture, design, town-planning and architectural history. Its contributors include architects, critics and historians, including many whose work helped shape the Non-Plan debate during the period. List of contributors: Cedric Price, Benjamin Franks, Elizabeth Lebas, Eleonore Kofman, Ben Highmore, Yona Friedman, Paul Barker, Clara Greed, Barry Curtis, Colin Ward, Ian Horton, John Beck, Chinedu Umenyilora and Malcolm Miles.

Menschen- und Tiergestalten in der Architektur Routledge

Mankind needs to relate to inanimate matter as well. Mankind 'animates' stones, mountains, rivers, yes even the world and the cosmos so that it can communicate with them. Zoomorphic architecture is a variant of anthropomorphic architecture.

The Inhabitable Flesh of Architecture Frontiers Media SA

"This book explores the relation of abstract art to nature. Traditional picturing and sculpture are based on conventions of resemblance between the work and that which it is a representation "of." Abstract works, in contrast, adopt alternative modes of visual representation, or break down and reconfigure the mimetic conventions of pictorial art and sculpture. Obviously this means that abstract art takes many different forms. However, this diversity should not mask some key structural features; these center on two basic relations to nature (understanding nature in the broadest sense to comprise the world of recognisable objects, creatures, organisms, processes, and states of affairs). The first involves abstracting from nature, to give selected aspects of it a new and extremely unfamiliar appearance. The second involves abstract art as the affirmation of a relatively unconstrained natural creativity that issues in new, autonomous forms that are not constrained by mimetic conventions. (Such creativity is often attributed to the power of the unconscious.)The book contains three categories of essays: 1) those on classical modernism (Mondrian, Malevich, Kandinsky, Arp, early American abstraction), 2) those on post-war abstraction (Pollock, Still, Newman, Smithson, Noguchi, Arte Povera, Michaux, postmodern developments), and 3) those of a broader art historical and philosophical scope"--

Beyond the Haunted House Princeton University Press

Socially engaged architecture is a broad and emerging architectural genre that promises to redefine architecture from a market-driven profession to a mix of social business, altruism, and activism that intends to eradicate poverty, resolve social exclusion, and construct an egalitarian global society. The Routledge Companion to Architecture and Social Engagement offers a critical enquiry of socially engaged architecture's current context characterized by socio-economic inequity, climate change, war, increasing global poverty, microfinance, the evolving notion of professionalism, the changing conception of public, and finally the growing academic interest in re-visioning the social role of architecture. Organized around case studies from the United States, Brazil, Venezuela, the United Kingdom, South Africa, Rwanda, Burkina Faso, Nigeria, Nepal, Pakistan, Iran, Thailand, Germany, Australia, Taiwan, and Japan the book documents the most important recent developments in the field. By examining diverse working methods and philosophies of socially engaged architecture, the handbook shows how socially engaged architecture is entangled in the global politics of poverty, reconstruction of the public sphere, changing role of the state, charity, and neoliberal urbanism. The book presents debates around the issue of whether architecture actually empowers the participators and alleviates socio-economic exclusion or if it instead indirectly sustains an exploitive capitalism. Bringing together a range of theories and case studies, this companion offers a platform to facilitate future lines of inquiry in education, research, and practice.

A Visual Guide Birkhäuser

This collection discusses the innovative and experimental architecture of Israel during its first three decades following the nation's establishment in 1948. Written by leading researchers, the volume highlights new perspectives on the topic, discussing the inception, modernization and habitation of historic and lesser-researched areas alike in its interrogation. Inbal Ben-Asher Gitler and Anat Geva

show how Israeli nation building, in its cultural, political and historical contexts, constituted an exceptional experiment in modern architecture. Examples include modern experiments in mass housing design; public architecture such as exhibition spaces, youth villages and synagogues; a necessary consideration of climate in modern architectural experiments; and the exportation of Israeli modern architecture to other countries.

Proceedings of the EAAE ARCC 10th International Conference (EAAE ARCC 2016), 15-18 June 2016, Lisbon, Portugal Yale University Press

A gorgeously illustrated, accessible book that provides a holistic summary of the key elements for good biophilic design

Building Place, Craft, and Community Island Press

This book tells the history of the many analogies that have been made between the evolution of organisms and the human production of artefacts, especially buildings. It examines the effects of these analogies on architectural and design theory and considers how recent biological thinking has relevance for design. Architects and designers have looked to biology for inspiration since the early 19th century. They have sought not just to imitate the forms of plants and animals, but to find methods in design analogous to the processes of growth and evolution in nature. This new revised edition of this classic work adds an extended Afterword covering recent developments such as the introduction of computer methods in design in the 1980s and '90s, which have made possible a new kind of 'biomorphic' architecture through 'genetic algorithms' and other programming techniques.

19th International Symposium, Kemer-Antalya, Turkey, October 27-29, 2004. Proceedings Springer Science & Business Media

Twenty-one essays examining the relationship of surrealist thought to architectural theory and practice.

Aesthetics and Architectural Composition Ashgate Publishing, Ltd.

From leaves to liquids, caves to crystal formations, nature has always been a major source of inspiration for architects. This book examines how nature can act as a precedent for design solutions through twelve case studies. Packed with computer drawings, sketches, models, and photographs, this will be an ideal resource of ideas for students in their studio work, as well as for practicing architects.

Meanings of Abstract Art CRC Press

Sustainable design has made great strides in recent years; unfortunately, it still falls short of fully integrating nature into our built environment. Through a groundbreaking new paradigm of "restorative environmental design," award-winning author Stephen R. Kellert proposes a new architectural model of sustainability. In *Building For Life*, Kellert examines the fundamental interconnectedness of people and nature, and how the loss of this connection results in a diminished quality of life. This thoughtful new work illustrates how architects and designers can use simple methods to address our innate needs for contact with nature. Through the use of natural lighting, ventilation, and materials, as well as more unexpected methodologies-the use of metaphor, perspective, enticement, and symbol-architects can greatly enhance our daily lives. These design techniques foster intellectual development, relaxation, and physical and emotional well-being. In the works of architects like Frank Lloyd Wright, Eero Saarinen, Cesar Pelli, Norman Foster, and Michael Hopkins, Kellert sees the success of these strategies and presents models for moving forward. Ultimately, Kellert views our fractured relationship with nature as a design problem rather than an unavoidable aspect of modern life, and he proposes many practical and creative solutions for cultivating a more rewarding experience of nature in our built environment.

Biomimicry in Architecture CRC Press

Architects often employ design methods to help them find more creative forms. These methods make it possible to break free of the traditional canon of forms and established paradigms. At the same time, there must be enough leeway for a functional, systematic design conception to take shape. This volume focuses in depth on the design methods that have decisively shaped current architectural practice. Themes are - Diagrammatic methods (using drawings and schematic representations), -Mimetic methods (imitative), - Parametric methods (using a characteristic quantity), - Automated and digital design methods of the contemporary avant-garde, e.g. scaling, datascares, folding, and morphing.

Bionics by Examples Routledge

This book constitutes the refereed proceedings of the 19th International Symposium on Computer and Information Sciences, ISCIS 2004, held in Kemer-Antalya, Turkey in October 2004. The 99 revised full papers presented together with an invited paper were carefully reviewed and selected from 335 submissions. The papers are organized in topical sections on artificial intelligence and machine learning, computer graphics and user interfaces, computer networks and security, computer vision and image processing, database systems, modeling and performance evaluation, natural language processing, parallel and distributed computing, real-time control applications, software engineering and programming, and theory of computing.

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