



ARCHITECT'S HOUSE

Nature As Architect

Diana Agrest



Nature As Architect:

Architecture Follows Nature-Biomimetic Principles for Innovative Design Ilaria Mazzoleni, 2013-03-21 Applying Properties of Animals Skins to Inspire Architectural Envelopes Biology influences design projects in many ways the related discipline is known as biomimetics or biomimicry Using the animal kingdom as a source of inspiration Ilaria Mazzoleni seeks to instill a shift in thinking about the application of biological principles to design and architecture She focuses on the analysis of how organisms have adapted to different environments and translates the learned principles into the built environment To illustrate the methodology Mazzoleni draws inspiration from the diversity of animal coverings referred to broadly as skin and applies them to the design of building envelopes through a series of twelve case studies Skin is a complex organ that performs a multitude of functions namely it serves as a link between the body and the environment Similarly building envelopes act as interfaces between their inhabitants and external elements The resulting architectural designs illustrate an integrative methodology that allows architecture to follow nature Ilaria Mazzoleni in collaboration with biologist Shauna Price has developed a profound methodology for architectural and design incentives that anticipates and proposes novel ways to explore undiscovered biological inspirations for various audiences Yoseph Bar Cohen *Designing with Nature* Ken Yeang, 1995 A timely incisive book providing a comprehensive framework for designing buildings that work with nature Offering a compelling case for ecological design it provides architects and designers with a full understanding of the impact that their work has on the natural environment as well as what can be done to mitigate the damage man made structures inflict on the natural environment

Architecture of Nature Diana Agrest, 2019-01-15 Based on documentation originating in the environmental sciences history of science philosophy and art Architecture of Nature explores the materiality and the effects of the forces at play in the history of the earth through the architect's modes of seeing and techniques of representation This book presents the research work developed for the past eight years in the Advanced Research graduate studio Architecture of Nature Nature of Architecture created and directed by Diana Agrest at the Irwin S Chanin School of Architecture of the Cooper Union Architecture of Nature departs from the traditional approach to nature as a referent for architecture and reframes it as its object of study The complex processes of generation and transformations of extreme natural phenomena such as glaciers volcanoes permafrost and clouds are explored through unique drawings and models confronting a scale of space and time that expands and transcends the established boundaries of the architectural discipline

Culture, Architecture and Nature Sim Van der Ryn, 2013-10-30 Gathering his most compelling essays and addresses from the last fifty years in one accessible volume this book looks at the pioneering ideas that underpin Sim Van der Ryn's ecological design philosophy It offers a unique decade by decade retrospective of the key issues in environmental design beginning with the most recent years and looking back to the 1960s With an introductory chapter and further recommended reading for each decade this book is key reading for any architect or designer practising today and students

will find a wealth of knowledge with which to support their studies The author s beautiful illustrations painted in a corresponding timescale to the chapters offer further insight into the way he understands the challenges of humanity s stewardship of our planet Nature's Architect Jim Crumley,2022-01-01 Sublime writing a genuinely important book Ken Lussey Hundreds of years after their extinction in these isles beavers are back in Britain These highly skilled engineers of the natural world have been reintroduced at several sites across the UK and even as they become established are already having a dramatic effect on our wild landscapes Here leading nature writer Jim Crumley reveals the pioneering lifestyle of these intriguing and secretive creatures and considers the ecological and economic impact of the beaver reintroductions Employing his trademark beautiful prose and empathy for life in the wild Crumley considers the future for Britain s beavers and makes the case for giving them their freedom *Nature and Architecture* Paolo Portoghesi,2000 This well illustrated text is the result of a research project begun in the 1950s which relates forms of architecture and even more the rules and ideas that have characterized architectural production down the centuries with the forms of nature **Design Ecologies** Lisa Tilder,Beth Blotstein,2012-03-20 Contemporary architects are under increasing pressure to offer a sustainable future But with all the focus on green building there has been little investigation into the meaningful connections between architectural design ecological systems and environmentalism A new generation of architects landscape architects designers and engineers aims to recalibrate what humans do in the world according to how the world works as a biophysical system Design in this sense is a larger concept having to do as much with politics and ethics as with aesthetics and technology This recasting of the green movement for the twenty first century transforms design into a positive agent balancing societal values with environmental needs Design Ecologies is a ground breaking collection of never before published essays and case studies by today s most innovative designers and critics Their design strategies social material and biological run the gamut from the intuitive to the highly technological One essay likens window unit air conditioners in New York City to weeds in order to spearhead the development of potential design solutions Latz Partner s Landscape Park integrates vegetation and industry in an urban park built amongst the monumental ruins of a former steelworks in Duisburg Nord Germany The engineering firm Arup presents its thirty three square mile masterplan for Dongtan Eco City an energy independent city that China hopes will house half a million people by 2050 An essay by designer Bruce Mau leads off a stellar list of emerging designers including Jane Amidon Blaine Brownell David Gissen Gross Max Robert Sumrell and Kazys Varnelis Stephen Kieran and James Timberlake R Sie n Studio 804 and WORKac **Light, Nature, Architecture** Ulrike Brandi,2023-05-08 In this planning guide the renowned lighting designer Ulrike Brandi documents all her findings on the topics of lighting design daylight sustainability and healthy living spaces It is a challenge to create holistic lighting design in times of advancing mechanization but it is the right thing to do in terms of achieving sustainability in the use of light and energy The renowned lighting designer Ulrike Brandi explains this attitude with the words It s better to make the most of natural light from the

start rather than compensating with artificial light afterwards The guideline Light Nature Architecture proves how essential but also simple it is to integrate natural light into architectural planning and thus into the design of healthy and pleasant living and working environments This richly illustrated handbook is structured based on natural light phenomena and combines Ulrike Brandi s wealth of experience theoretical principles and design methods to create a reference work and source of inspiration Richly illustrated basic work for holistic lighting design Insight into the extensive practical experience and the individual approach of the renowned lighting designer Ulrike Brandi Source of inspiration for professional planners architects and laypeople Available in English and German Licht Natur Architektur ISBN 9783035624083

Biomimicry in Architecture Michael Pawlyn, 2019-08-12 When searching for genuinely sustainable building design and technology designs that go beyond conventional sustainability to be truly restorative we often find that nature got there first Over 3.5 billion years of natural history have evolved innumerable examples of forms systems and processes that can be applied to modern green design For architects urban designers and product designers this new edition of Biomimicry in Architecture looks to the natural world to achieve radical increases in resource efficiency Packed with case studies predicting future trends this edition also contains updated and expanded chapters on structures materials waste water thermal control and energy as well as an all new chapter on light An amazing sourcebook of extraordinary design solutions Biomimicry in Architecture is a must read for anyone preparing for the challenges of building a sustainable and restorative future

Raw: Architectural Engagements with Nature Solveig Bøe, Hege Charlotte Faber, 2016-04-08 Through cross disciplinary explorations of and engagements with nature as a forming part of architecture this volume sheds light on the concepts of both nature and architecture Nature is examined in a raw intermediary state where it is noticeable as nature despite but at the same time through man s effort at creating form This is done by approaching nature from the perspective of architecture understood not only as concrete buildings but as a fundamental human way both of being in and relating to the world Man finds and forms places where life may take place Consequently architecture may be understood as ranging from the simple mark on the ground and primitive enclosure to the contemporary megalopolis Nature inheres in many aesthetic forms of expression In architecture however nature emerges with a particular power and clarity which makes architecture a raw kind of art Even though other forms of art as well as aesthetic phenomena outside the arts are addressed the analogy to architecture will be evident and important Thus by using the concept of raw as a focal point this book provides new approaches to architecture in a broad sense as well as other aesthetic and artistic practices and will be of interest to readers from different fields of the arts and humanities spanning from philosophy and theology to history of art architecture and music

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