

Göran Pohl
Werner Nachtigall

Biomimetics for Architecture & Design

Nature—Analogies—Technology

 Springer

Biomimetics For Architecture Design Nature Analogies Technology

**A. Praveen Kumar, Tatacipta
Dirgantara, Sanjay Mavinkere
Rangappa**

Biomimetics For Architecture Design Nature Analogies Technology:

Biomimetics for Architecture & Design Göran Pohl, Werner Nachtigall, 2015-10-30 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

Heating with Wolves, Cooling with Cacti Negin Imani, Brenda Vale, 2021-12-30 This book describes the detailed process behind the development of a comprehensive thermo bio architectural framework the ThBA This framework systematically connects the thermal performance requirements of a building to relevant solutions found in the natural world This is the first time that architecture has been connected to biology in this manner The book provides an in depth understanding of thermoregulatory strategies in animals and plants and links these to equivalent solutions in architectural design The inclusion of this fundamental knowledge along with the systematic process of accessing it should open up new avenues for the generation of energy efficient and sustainable buildings

Biology, Biomimetics and Natural Design Amilton José Vieira de Arruda, Felipe Luis Palombini, 2024-08-27 For billions of years nature has provided efficient solutions to complex problems by means of natural selection in a harsh environment that only the fittest organisms survived Such sustainable still ruthless driven evolution can be explored by designers architects engineers and more for the development of innovative projects Biomimetics makes the link between Biology and Design where features like shapes mechanisms colors structures and more can be analyzed organized modeled and simulated for application in multiple creations Therefore such knowledge can contribute to more efficient and innovative solutions to many fields of applied science This project aims to highlight some of the recent technological breakthroughs in Biology Biomimetics and Natural Design that contribute to the development of sustainable and innovative materials and projects This work consists of contributions from some of the main international groups of Biomimetics exhibiting exciting cases of how technological advancements are leading to improved design solutions as well as shaping our very comprehension of nature and its complex organization

Innovative Processes and Materials in Additive Manufacturing Sunpreet Singh, Chander Prakash, Seeram

Ramakrishna,2022-09-06 Innovative Processes and Materials in Additive Manufacturing explains game changing interdisciplinary applications of recent research breakthroughs in additive manufacturing technology The number of research publications addressing additive manufacturing has soared in recent years as a range of disciplines explore the possibilities that this technology can provide This book acts as a bridge between this high level research and the large number of academics and practitioners looking to additive manufacturing for innovative solutions providing them with practical and approachable information Applications in aerospace automotive medical construction and food industries are addressed featuring technical details that will help successful implementation This unique book also provides broad coverage of the theory behind this emerging technology including material development as well as the technical details required for readers to investigate the novel applications of the involved methods for themselves Includes case studies from the aerospace construction and medical industries Features innovations in the integration of additive manufacturing processes with other manufacturing technologies Identifies exciting routes for future research and application areas of additive manufacturing

Thin-Walled Composite Protective Structures for Crashworthiness Applications A. Praveen Kumar,Tatacipta Dirgantara,Sanjay Mavinkere Rangappa,2023-08-16 This book summarizes many of the recent advances in the design and application of thin walled composite protective structures The past few decades have seen outstanding advances in the use of composite materials in structural applications Composites have revolutionized traditional design concepts and made possible an unparalleled range of new and exciting possibilities as viable materials for construction This book presents an extensive survey on recent improvements in the research and development of composites and biocomposites that are used to make structures in various applications This book deals with design research and development studies experimental investigations theoretical analysis and fabrication techniques relevant to the application of composites in load bearing components for assemblies ranging from individual components such as plates and shells to complete composite structures This book also focuses the recent advances in biocomposite materials from renewable resources and introduces a potential application of this material The content is this book benefits the academics researchers scientists engineers and students in the field of epoxy blends for application as lightweight advanced composite structures

Phenomenology of the Gameworld: A Philosophical Toolbox for Video Game Developers Matthew E. Gladden,2019-12-15 The human mind is the most powerful game engine but it can always use some help This book is meant for developers who want to create games that will evoke richer and more memorable gameworlds in the minds of their players We don't just enter such unforgettable gameworlds when we play first person 3D RPGs with high resolution graphics even relatively simple 2D puzzle or strategy games with 8 bit style visuals can immerse players in worlds that are beautiful terrifying mysterious or moving that are brutally realistic or delightfully whimsical Indeed good video games can transport us to incredible new worlds The process by which a particular gameworld emerges is a symbiotic collaboration between developer and player the game system presents

a carefully architected stream of polygons and pixels which somehow leads the player's mind to construct and explore an intricate world full of places people relationships dilemmas and quests that transcends what's actually appearing onscreen Drawing on insights from ontology and philosophical aesthetics this volume provides you with conceptual frameworks and concrete tools that will enhance your ability to design games whose iconic gameworlds encourage the types of gameplay experiences you want to offer your players Among other topics the book investigates The unusual ways in which a gameworld's contents can shrink or grow in players' minds depending on whether the players are mentally positioned within a game's social space cultural space built space or tactical space The manner in which players' minds spontaneously concretize the countless gaps that exist in a game and how this dynamic explains why so many players still enjoy 8 bit style games with retro pixel art The differing ways in which players experience success and failure danger and safety good and evil the future and the past the known and the unknown and engagement and retreat depending on whether a game reveals its gameworld through a 1D game environment like that of a text based adventure 2D environment like that of a sidescroller or a grand strategy game with a top down map view 2.5D environment like that of an isometric turn based tactics game or 3D environment like that of a first person shooter The powerful way in which players are able to mentally explore a gameworld simply by shifting their conscious awareness between different senses media ontological strata and constituent spaces without needing to travel through the gameworld's terrain at all Necessary and optional elements of the gameworld from built areas natural landscapes laws of nature and a cosmogony to the game's player and designer and their roles in shaping the gameplay experience How to strategically employ the architectural paradigms of the Cyberspatial Grid Maze Space Biomimetic Net Simulacral World Virtual Museum and Protean World when architecting locales within your game in order to evoke particular kinds of emotional gameplay experiences for your players The nature of the unique sixth sense that 2D games grant to player characters and players Simple techniques for helping your 2D game to feel more like a 3D game The differing kinds of immersiveness interactivity and determinacy possessed by different types of games and their implications for the gameplay experience Once you've undertaken this philosophical and artistic journey you'll never look at your games or their gameworlds in quite the same way again

Phenomenology of the Gameworld is a book by the award winning video game designer philosopher and writer Matthew E Gladden He has over 20 years of experience with commercial and non commercial game development has published numerous scholarly and popular works relating to the philosophy of video game design virtual reality and neurocybernetics and has served as a video game conference keynote speaker

High Performance Computing in Biomimetics Kamarul Arifin Ahmad, Nor Asilah Wati Abdul Hamid, Mohammad Jawaid, Tabrej Khan, Balbir Singh, 2024-03-20 This book gives a complete overview of current developments in the implementation of high performance computing HPC in various biomimetic technologies The book presents various topics that are subdivided into the following parts A biomimetic models and mechanics B locomotion and computational methods C distributed computing

and its evolution D distributed and parallel computing architecture E high performance computing and biomimetics F big data management and visualization and G future of high performance computing in biomimetics This book presents diverse computational technologies to model and replicate biologically inspired design for the purpose of solving complex human problems The content of this book is presented in a simple and lucid style which can also be used by professionals non professionals scientists and students who are interested in the research area of high performance computing applications in the development of biomimetics technologies

Rethinking Building Skins Eugenia Gasparri,Arianna Brambilla,Gabriele Lobaccaro,Francesco Goia,Annalisa Andaloro,Alberto Sangiorgio,2021-12-05 *Rethinking Building Skins* Transformative Technologies and Research Trajectories provides a comprehensive collection of the most relevant and forward looking research in the field of facade design and construction today with a focus on both product and process innovation The book brings together the expertise creativity and critical thinking of more than fifty global innovators from both academia and industry to guide the reader in translating research into practice It identifies new opportunities for the construction sector to respond to present challenges towards a more sustainable efficient connected and safe future Introduces the reader to the role of facades with respect to the main challenges ahead Provides an overview of the major facade technological advancements throughout history and identifies prospective research trajectories Includes interviews with key industry players from different backgrounds and expertise Showcases a comprehensive range of leading research topics in the field organised by product and process innovation Covers major innovations across the value chain including facade design fabrication construction operation and maintenance and end of life Contributes towards the definition of an international research agenda and identifies emerging market opportunities for the facade industry

Inflection 03: New Order Rory Hyde,Luke Pearson,Forensic Architecture,Breathe Architecture,Lateral Office,2016-10-15 In the context of recent global political and economic disruption architecture seems no longer equipped to address the demands of contemporary society as an isolated discipline One solution offered in this crisis of relevance is the notion of transdisciplinarity characterised by the hybridisation of distinct disciplines Transdisciplinarity is the New Order Inflection Volume 3 explores the achievements limitations and future implications of this transdisciplinary age weaving together a fragment of the tapestry that is expanded architectural practice In tracing the trajectory of this New Order this issue uncovers the matter that binds architecture together in this fragmented yet hyperconnected epoch Wir contributions by Forensic Architecture Lateral Office Rory Hyde Breathe Architecture and many more Inflection is a student run design journal based at the Melbourne School of Design Melbourne University Born from a desire to stimulate debate and generate ideas it advocates the discursive voice of students academics and practitioners Founded in 2013 Inflection is a home for provocative writing a place to share ideas and engage with contemporary discourse

Plankton Iain Suthers,David Rissik,Anthony Richardson,2019-04-01 Healthy waterways and oceans are essential for our increasingly urbanised world Yet monitoring water quality in aquatic environments is a challenge

as it varies from hour to hour due to stormwater and currents Being at the base of the aquatic food web and present in huge numbers plankton are strongly influenced by changes in environment and provide an indication of water quality integrated over days and weeks Plankton are the aquatic version of a canary in a coal mine They are also vital for our existence providing not only food for fish seabirds seals and sharks but producing oxygen cycling nutrients processing pollutants and removing carbon dioxide from our atmosphere This Second Edition of Plankton is a fully updated introduction to the biology ecology and identification of plankton and their use in monitoring water quality It includes expanded illustrated descriptions of all major groups of freshwater coastal and marine phytoplankton and zooplankton and a new chapter on teaching science using plankton Best practice methods for plankton sampling and monitoring programs are presented using case studies along with explanations of how to analyse and interpret sampling data Plankton is an invaluable reference for teachers and students environmental managers ecologists estuary and catchment management committees and coastal engineers

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