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# **Biomimetic Office Building**

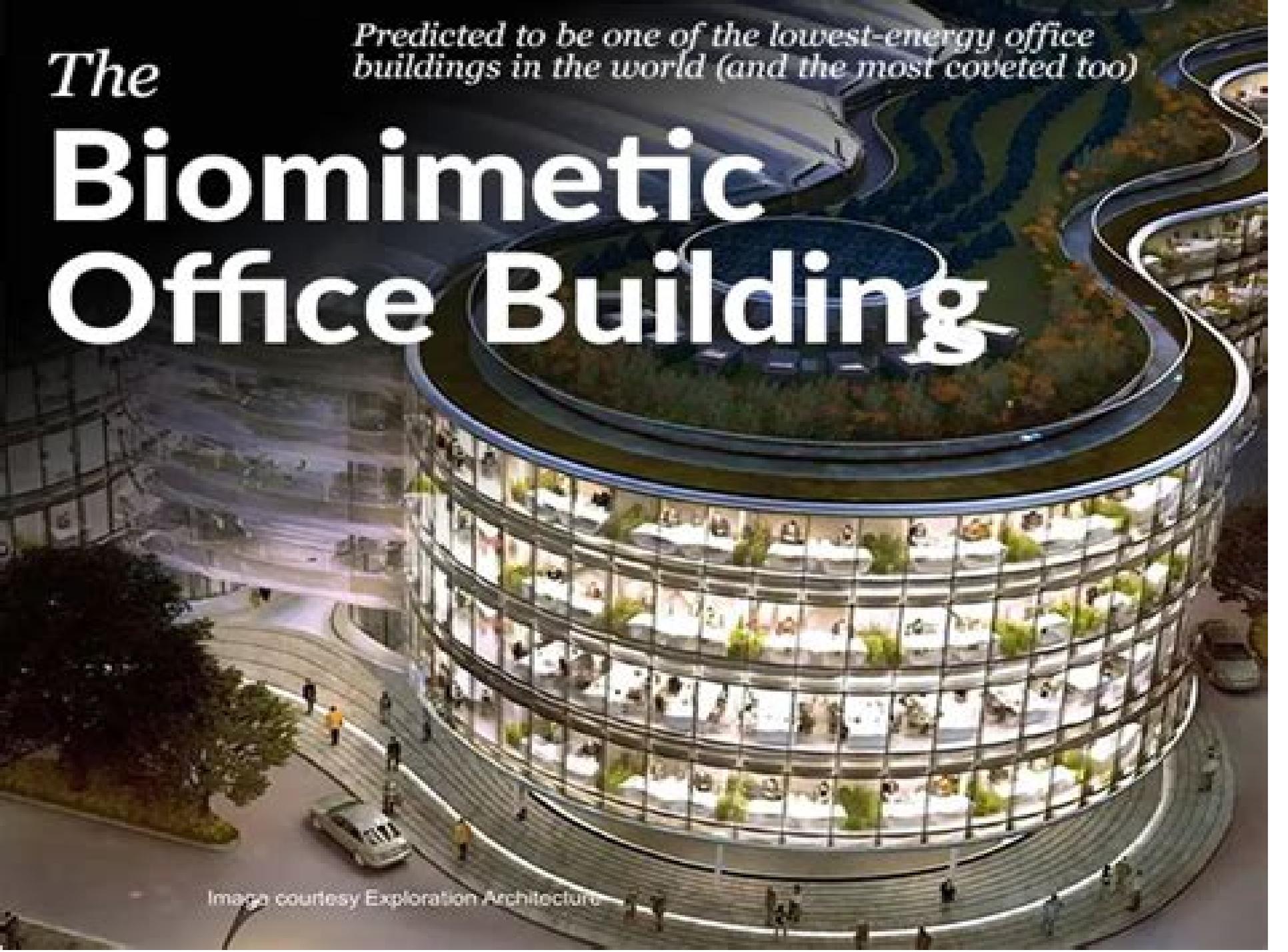
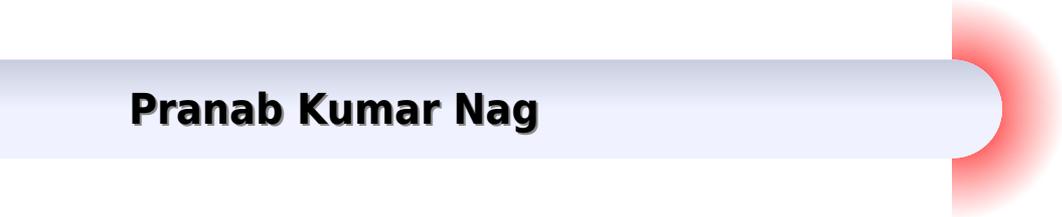


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# The Biomimetic Office Building Exploration Architecture

**Pranab Kumar Nag**



## **The Biomimetic Office Building Exploration Architecture:**

*Development* Torsten Krude, Sara T. Baker, 2018-12-13 Prominent intellectuals and public figures explore the dynamics of development offering varying perspectives from a range of fields Biomimicry in Architecture Michael Pawlyn, 2025-09-01 Regenerative design requires transformative approaches Biomimicry provides a perspective that radically rethinks architecture from the materials we use to the cities and systems we create Biomimicry harnesses not just natural beauty but the remarkable array of adaptations that species have perfected over millennia With the climate crisis escalating biomimicry is no longer just an inspiration it is an imperative It recognises that we are nature and rather than viewing the living world as separate to us to be plundered for resources and pollution we are intrinsic to it While industries such as manufacturing transportation and product design have embraced biomimicry as a driver of sustainability architecture has yet to unlock its full potential This must change Nature holds the key to designing buildings and systems that can be net positive and show that humans can become responsible stewards of planet Earth The adaptations that have evolved in the living world can inspire radical game changing solutions self repairing structures air conditioned termite mounds and the extraordinary water harvesting abilities of a desert beetle These innovations have been tested through 3.8 billion years of evolution offering architects the chance to revolutionise the way we build and live Biomimicry in Architecture explores how nature's ingenuity can transform everything from structural efficiency and material innovation to water conservation energy systems and even the design of entire cities Featuring awe inspiring biological strategies this book presents urgent real world solutions for a sustainable future Completely rewritten and updated with new content and illustrations this edition puts forward a transformative case for biomimicry as a discipline that shows how to design as nature and integrate everything we do as humans into the web of life that supports us The future depends on it **Sustainability in Creative Industries** Rafael Cano-Guervos, Jorge Chica-Olmo, Juan Gabriel González Morales, Muhammad Nawaz Tunio, Fabio Humberto Sepúlveda Murillo, Marina Checa Olivas, Ayman M. Zakaria Eraqi, 2024-05-27 This book discusses the dynamic interplay of creativity and sustainability in the realm of design offering a captivating exploration of innovative practices and their environmental impact From biomimetic inspirations to biophilic designs it unveils a spectrum of ideas in sustainable architecture It further dives into inclusive and creative designs social sustainability for the elderly amid the pandemic This book casts a spotlight on the intricate synergy between preserving cultural heritage and fostering creative industries It explores the profound significance of architectural lighting the innovative reinterpretation of traditional motifs and the enduring allure of heritage design within its chapters creating an engaging and thought provoking journey Moreover it ventures into the Integration of Creative Design in Urban Planning presenting a futuristic outlook that seamlessly blends technology sustainability and human centric solutions Designed for a wide audience including professionals educators and students this book is a compelling resource for those passionate about the intersection of creativity and sustainability It offers thought provoking ideas informative case

studies and a glimpse into the future of design that transcends boundaries

**Biomimetic Architecture and Its Role in Developing Sustainable, Regenerative, and Livable Cities** Mohsen Aboulnaga, Samaa E. Helmy, 2022-09-01 This book focuses on understanding biomimetic architecture and its role as a sustainable design tool It presents the role of biomimicry in mitigation and adaptation to climate change and examines how biomimetic architecture can provide healthy solutions to limit the spread of COVID 19 in buildings and cities Coverage includes global examples of biomimetic approaches and buildings an evaluation of the performance of biomimicry applications in architecture to illustrate best practices and an exploration of how nature can offer inspiration in building design to conserve resources and save energy use as well as curb carbon emissions a reaffirmed goal of COP 26 and an outcome of Glasgow Climate Pact Finally the book presents guidelines to enhance urban areas and healthier spaces in buildings to meet COVID 19 social distance regulations and beyond Examines global applications of biomimicry in architecture Highlights the importance of biomimicry in driving livability in cities and buildings Explores the role of biomimetic architecture in mitigating climate change The line of argument developed is highly relevant to the present in addition to being original and pertinent to research on urban regeneration especially in regard to the exploration of the use of biomimicry architecture in response to changing urban demands Alessandra Battisti Ph D Professor of Architecture University of Rome La Sapienza

**Who's Who in Science and Engineering 2008-2009** Who's Who Marquis, Marquis Who's Who, 2007-12

**Office Buildings** Thomas Arnold, 2002 With some 70 international examples the authors and editors show how the new issues facing architects can be resolved Thematic contributions by experts in various disciplines discuss topics such as models of work organisation facade technology climatic regulation lighting etc This volume is a crucial standard work in the design of offices

*Office Building* Jtart, 2013-09 This book brings together many types of office buildings including high rise multi story and administrative office buildings designed by outstanding firms and well known architects from around the world With diverse perspectives and years of experience they present their works with detail paid to design concept layout facade and function Sketches floor plans renderings sectional diagrams and detail drawings are selected ingeniously All of the projects are recent and provide architects designers and general readers with plenty of inspiration

**Building Type Basics for Office Buildings** A. Eugene Kohn, Paul Katz, 2002-07-29 Building Type Basics books provide architects with the essentials they need to jump start the design of a variety of specialized facilities In each volume leading national figures in the field address the key questions that shape the early phases of a project commission The answers to these questions provide instant information in a convenient easy to follow format The result is an excellent hands on reference that puts critical information at your fingertips

*Bouwheer & meester* Gert Staal, 1987 De relatie architect opdrachtgever en eindprodukt vanaf ca 1850 waarbij grote internationale ontwikkelingen op het gebied van kantorenbouw aan de orde komen

*Problems of Office Building Design in Bulgaria* Tzvetelina Todorova Daskalova, 2020-01-07 This work examined the functional architectural and planning characteristics in the design of office

buildings in Bulgaria Due to lack of current legislation in Bulgaria for newly built office buildings are applying international quality standards but not adapted to regional specificities The focus is on examples of regulations in other countries and systematic exposition of knowledge known until now to design office buildings The main thesis of the dissertation is formulated The design of office buildings in Bulgaria can be improved by applying modern adequate architectural and planning principles and availability of regulated evaluation criteria The author has systematized the material concerning the subject of dissertation An examines and establishment of the main factors that influence the design of office buildings is made Single terminological base is introduced and justified Outlines the local criteria for assessment of buildings in accordance with the achieved in the world practice which could serve as a basis for updating the standards for the design of office buildings in Bulgaria Outlines the basic principles of design modularity flexibility polyfunctionality social interaction suitability Account is taken of the importance of the correlation between internal spatial structure of the office building and functional characteristics of the management process Expected economic effect of development increasing efficiency in the design and saving capital investments

Office Buildings Reinhold Hohl,1968      **Office Buildings** Pranab Kumar Nag,2019 This book brings together concepts from the building environmental behavioural and health sciences to provide an interdisciplinary understanding of office and workplace design Today with changes in the world of work and the relentless surge in technology offices have emerged as the repositories of organizational symbolism denoted by the spatial design of offices physical settings and the built environment architecture urban locale Drawing on Euclidian geometry that quantifies space as the distance between two or more points a body of knowledge on office buildings the concept of office and office space and the interrelationships of spatial and behavioural attributes in office design are elucidated Building and office work related illnesses namely sick building syndrome and ailments arising from the indoor environment and the menace of musculoskeletal disorders are the alarming manifestations that critically affect employee satisfaction morale and work outcomes With a focus on office ergonomics the book brings the discussion on the fundamentals of work design with emphasis on computer workstation users Strategic guidance of lighting systems and visual performance in workplaces are directed for better application of ergonomics and improvement in office indoor environment It discusses the profiles of bioclimatic indoor air quality ventilation intervention lighting and acoustic characteristics in office buildings Emphasis has been given to the energy performance of buildings and contemporary perspectives of building sustainability such as green office building assessment schemes and national and international building related standards and codes Intended for students and professionals from ergonomics architecture interior design as well as construction engineers health care professionals and office planners the book brings a unified overview of the health safety and environment issues associated with the design of office buildings

*A-typical Plan* Jeannette Kuo,2013 As a typology conceived in the twentieth century the office building is often the architectural manifestation not only of global capital but also of technological might and mass

production But when we think of these buildings we often think more of objects than of space more of appearance than of atmosphere In *A Typical Plan* Jeannette Kuo offers a reversal of the experience starting from the inside out and prioritizing space over symbol In particular the book reconsiders the deep plan within the European context for a discussion on density economy and not least sustainability Featuring buildings by architects such as Frank Lloyd Wright Kenzo Tange Giuseppe Terragni Le Corbusier SANAA Herzog de Meuron Toyo Ito Christian Kerez and many others *A Typical Plan* presents a collection of projects through history that have attempted to bring character to the deep plan as a spatial experience for the workspace The work features essays by renowned authors including I aki balos Pier Vittorio Aureli Andrea Bassi Florian Idenburg Jeannette Kuo Freek Persyn and Antoine Picon A conversation with In s Lamuni re and a graphic essay by Jimenez Lai round out the diverse perspectives A final chapter presents the work of students at the EPFL with whom this research began Succinct and beautifully illustrated *A Typical Plan* is a reminder that even buildings created for quotidian uses can be spatially and experientially rich

*The Office Building of the Future* Pickard Chilton,2012 Presents the award winning design for the Office Building of the Future it integrates new thinking about the workplace sustainability and accommodates a limitless range of building types and scales

**Workplace Environmental Design in Architecture for Public Health** Stamatina Th. Rassia,2017-04-04 This concise volume analyzes the potential for the workplace environment where so many people spend so much of their day to improve workers capacity for health and wellness It pinpoints the link between sedentary lifestyles and poor health and explores the role of office spatial design in encouraging physical activity to promote physical activity health and prevent disease The featured research study tracks workers movement in a variety of office layouts addressing possible ways movement friendly design can co exist with wireless communication paperless offices and new corporate concepts of productivity From these findings the author s conclusions extend public health concepts to recognize that influencing population wide levels of activity through office architectural design alone may be possible This SpringerBrief is comprised of chapters on Physical activity and disease Theory and practice Space use and the history of the office building Identifying factors of the office architectural design that influence movement Interdisciplinary research methods in studying worker physical activity decision making and office design characteristics The KINESIS model for simulating physical activity in office environments The questions and potential for solutions in Workplace Environmental Design in Architecture for Public Health will interest and inform researchers in interdisciplinary topics of public health and architecture as well as graduate and post graduate students architects economists managers businesses as well as health conscious readers

*The Office Building of the Future* Kgd Architecture,Manoj Dalaya,2017-12-11 Design competitions bridge the gap between members of architecture firms and the public Participation in competitions provides the public with an inside view of how firms stretch the bounds of their creativity This creative and ambitious competition submission has captured audiences around the world both on paper and through presentation by Principal Manoj Dalaya AIA For this

competition a team was formed that represented all of KGD Architecture from the newest staff members to the firm partners All ideas were brought to the table and developed through a series of design charrettes The best concepts were merged and finessed to form our final design Internal social networking was used to share ideas and inspiration Our process demonstrates the collaboration technological interaction and hierarchy free work processes that will be supported by our office building of the future Our design was supported by structural engineering provided by Arup assuring that our office building of the future would indeed be possible James G Davis Construction Company provided cost estimating services

**Office Buildings** ,1995      **On the Job** Donald Albrecht,Chrysanthe Broikos,2000-11 Russell are complemented by four photographic essays of historic images as well as new photographs by Steven Brooke BOOK JACKET      Office Buildings  
Leonard Manasseh,Roger Cunliffe,1962      Between Dictate & Design Staal,1999

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