

Biomimicry In Architecture

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structure and architecture is an essential textbook for students and practitioners of architecture and structural engineering macdonald explains the basic principles of structure and describes the ranges of structure types in current use furthermore the book links these topics directly with the activity of architectural design and criticism an update of the first edition structure and architecture 2ed includes a revised opening chapter and a new section that discusses prominent buildings constructed since the last edition was published in 1994 angus macdonald deals with structures holistically relating detailed topics back to the whole structure and building he aims to answer the questions what are architectural structures how does one define the difference

between the structure of a building and all of the other components and elements of which it consists what are the requirements of structures what is involved in their design an understanding of the concepts involved in answering these questions and an appreciation of how the structure of a building functions enhances the ability of an individual to appreciate its architectural quality this book is unique in that it discusses the structural component of architectural design in the context of visual and stylistic issues

the chief focus of the book is on the symbolic and linguistic the purpose is to develop an integrated theory of architectural description and architectural intention and this includes the intention of the user as well as that of the designer insofar as architecture is an art norberg schulz is a practicing architect his buildings stand in several countries and he elucidates the nature of architectural reality with a practiced eye and from a practical viewpoint although the methods and theory that his book develops are uncompromisingly rigorous and tightly formed they are everywhere related to actual building through specific examples and through the use of over 100 photographs the structure that norberg schulz has fashioned is surely one of the most impressive intellectual edifices that any architect has ever produced the materials that are organically worked into it include gestalt psychology the mechanics of perception information theory modern analytic philosophy and in particular linguistic analysis and the general theory of signs and symbols the result however is not an eclectic hodge podge all these materials have their place and purpose none is applied extraneously for show or purely decorative effect and all this divergent material had to be joined according to plan within formal bounds in order to produce a theory with equally divergent applications one that can treat not only of the aesthetics of architecture but equally well of its social psychological and cultural effects the chief focus of the book is on the symbolic and linguistic the purpose is to develop an integrated theory of architectural description and architectural intention and this includes the intention of the user as well as that of the designer insofar as architecture is an art

today s design professionals are faced with challenges on all fronts they need not only to keep in step with rapid technological changes and the current revolution in design and construction processes but to lead the industry this means actively seeking to innovate through design research raising the bar in building performance and adopting advanced technologies in their practice in a constant drive to improve design processes and services how is it possible to implement innovations and moreover to assimilate them in such a way that design methods and technologies remain fully integrated focusing on innovations in architecture this book covers new materials and design methods advances in computational design practices innovations in building technologies and construction techniques and the integration of research with design moreover it discusses strategies for integrating innovation into design practices risks and economic impacts through numerous case studies it illustrates how innovations have been implemented on actual architectural projects and how design and technical innovations are used to improve building performance as well as design practices in cutting edge architectural and

engineering firms projects of all scales and building types are discussed in the book ranging from small scale installations academic and commercial buildings to large scale mixed use healthcare civic academic scientific research and sports facilities work from design firms around the globe and of various scales is discussed in the book including for example asymptote architecture cepezed co architects consarc architects faab architektura gerber architekten hok idom acxt mad architects morphosis architects sda synthesis design architecture studiotrope perkins will richter dahl rocha associés snøhetta rob ley studio trahan architects unstudio and zaha hadid architects among many others

in an era of brash expensive provocative new buildings a prominent critic argues that emotions such as hope power sex and our changing relationship to the idea of home are the most powerful force behind architecture yesterday and especially today we are living in the most dramatic period in architectural history in more than half a century a time when cityscapes are being redrawn on a yearly basis architects are testing the very idea of what a building is and whole cities are being invented overnight in exotic locales or here in the united states now in a bold and wide ranging new work rowan moore former director of the architecture foundation now the architecture critic for the observer explores the reasons behind these changes in our built environment and how they in turn are changing the way we live in the world taking as his starting point dramatic examples such as the high line in new york city and the outrageous island experiment of dubai moore then reaches far and wide back in time to explore the covent garden brothels of eighteenth century london and the fetishistic minimalism of adolf loos across the world to assess a software magnate s grandiose mansion in atlanta and daniel libeskind s failed design for the world trade center site and finally to the deeply naturalistic work of lina bo bardi whom he celebrates as the most underrated architect of the modern era

a primer on theory in architecture discusses how theory is defined in architecture how it is identified its location in larger perspectives or worldviews its relationships to other areas in architecture and how it can be constructed the book explores the definition elements and characteristics of theory along with subjects associated with theory and how these associations are recognized in addition case studies tackle both individual theorists and common approaches to the topic aimed at the new student of architectural theory if you are just beginning to tackle this subject begin with this book

all buildings must stand an adequate structure was as necessary for the simplest primitive hut as it is for the tallest or widest spanning modern building however this requirement became more difficult to satisfy as designers became more adventurous and the experience already gained became less directly applicable the present papers look at the consequent evolution of design methods and the types of understanding that have been essential guides a particular focus is the question of how earlier innovations made without the benefits of modern theory were possible other papers look in detail at the most outstanding of these achievements such as the church of

hagia sophia in istanbul and the dome of florence cathedral

shells plants molecular structure birds wings molluscs architecture architectural structure

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