

Zoomorphic New Animal Architecture

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animal architects unveils the astonishing construction capabilities found throughout the animal kingdom from bird nests to beaver dams and even coral reefs creatures exhibit remarkable engineering skills shaped by evolution these constructions aren't just instinctive actions they reflect sophisticated adaptations critical for survival and significantly influence ecosystem dynamics discover how animals select and modify resources to build homes showcasing ingenuity in structural design that impacts habitat creation and biodiversity this book explores the materials and methods animals use the functions of their constructions for survival and reproduction and their broader ecological impact structured in three parts it begins with fundamental principles progresses to specific examples grouped by construction type and concludes with the ecological consequences of animal architecture through diverse data from field observations and biomechanical analyses animal architects emphasizes the active role animals play in shaping their environments challenging the notion that environmental modification is unique to humans

animal behavior has long been a battleground between the competing claims of nature and nurture with the possible role of cognition in behavior as a recent addition to this debate there is an

untapped trove of behavioral data that can tell us a great deal about how the animals draw from these neural strategies the structures animals build provide a superb window on the workings of the animal mind animal architects examines animal architecture across a range of species from those whose blueprints are largely innate such as spiders and their webs to those whose challenging structures seem to require intellectual insight planning and even aesthetics such as bowerbirds nests or beavers dams beginning with instinct and the simple homes of solitary insects james and carol gould move on to conditioning the cognitive map and how it evolved and the role of planning and insight finally they reflect on what animal building tells us about the nature of human intelligence showing why humans unlike many animals need to build castles in the air

a provocative call for architects to remember and embrace the nonhuman lives that share our spaces a spider spinning its web in a dark corner wasps building a nest under a roof there s hardly any part of the built environment that can t be inhabited by nonhumans and yet we are extremely selective about which animals we keep in or out this book imagines new ways of thinking about architecture and the more than human and asks how we might design with animals and the other lives that share our spaces in mind animal architecture is a provocative exploration of how to think about building in a world where humans and other animals are already entangled whether we acknowledge it or not

explores a variety of animal habitats proving that nature has many talented architects

a highly original view of the relationship between architecture and the biological sciences

construction behaviour occurs across the entire spectrum of the animal kingdom and affects the survival of both builders and other organisms associated with them animal architecture provides a comprehensive overview of the biology of animal building the book recognizes three broad categories of built structure homes traps and courtship displays even though some of these structures are complex and very large the behaviour required to build them is generally simple and the anatomy for building unspecialized standardization of building materials helps to keep building repertoires simple while self organizing effects help create complexity some builders exhibit learning and cognitive skills and include some toolmaking species in a case study approach to function insects demonstrate how homes can remain operational while they grow spiderwebs illustrate mechanical design and the displays of bowerbirds raise the possibility of persuasion through design rather than just decoration studies of the costs to insect and bird home builders and to arthropod web builders provide evidence of optimal designs and of trade offs with other life history traits as ecosystem engineers the influence of builders is extensive and their effect is generally to enhance biodiversity through niche construction animal builders can therefore represent model species for the study of the emerging subject of environmental inheritance evidence that building has facilitated social evolution is mixed however building and in particular building with silk has been demonstrated to have important evolutionary consequences this book is intended for students and

researchers in comparative animal biology but will also be of relevance and use to the increasing numbers of architects and civil engineers interested in developing ideas from the animal kingdom

examines architecture as sculpture fascinating formal inventiveness in architecture

this book explores the relationships between form space and cultural meaning in human habitation authors from a variety of disciplines and international sites address the possibilities of common ground in architectural theories about place and dwelling anthropological research on settlement archaeology and the study of cultural landscapes and geography illustrated with 220 full color images this book is a unique attempt to combine thinking about cultural meaning in space and settlements both ancient and contemporary

vols 5 15 include bibliography of child study by louis n wilson

eliminate costly and potentially disastrous conceptual errors in your next structural design make sure your next building project is free of the conceptual errors that can cause structural failure with mcgraw hill s building anatomy an illustrated guide to how structures work packed with a wealth of informative diagrams and illustrations this essential volume drills deep into the concepts behind structural systems to give you a critical understanding of how they work from potential loads load combinations and superstructure to lateral support systems foundations and site soil and geology building anatomy can help you design structures that will stand the test of time written in clear easy to understand language by an award winning architect and professor building anatomy delivers easy access to critical information to help you select structural systems based on the pros and cons of each system size and arrange major structural components identify concerns for each type of structural system anticipate probable failure scenarios explain each system s behavior under loads such as seismic and wind understand construction issues encountered during fabrication and erection of each structure type and more with its critical information comprehensive coverage and indispensable illustrations building anatomy delivers the nuts and bolts guidance you need to avoid conceptual mistakes during structural design you can t afford to work without it

includes special issues

from termite mounds that in relative terms are three times as tall as a skyscraper to the elaborate nests of social birds and the deadly traps of spiders the constructions of the animal world can amaze and at times humble our own engineering and technology but how do creatures with such small brains build these complex structures what drives them to do it which skills are innate and which learned here mike hansell looks at the extraordinary structures that animals build whether homes traps or courtship displays and reveals the biology behind their behaviour he shows how small brained animals achieve complex feats in a small brained way by repeating many simple actions and using highly evolved self secreted materials on the other hand the building feats or tool

use of large brained animals such as humans or chimps require significantly more complex and costly behaviour we look at wasp s nests leaf cutting ants caddisflies and amoebae and even the extraordinary bower bird who seduces his mate with a decorated pile of twigs baubles feathers and berries hansell explores how animal structures evolved over time how insect societies emerge how animals can alter their wider habitat and even whether some animals have an aesthetic sense

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