



Biomimetics in Architecture: Architecture of Life and Buildings

Petra Gruber

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The purpose of investigating the overlaps between architecture and biology is neither to draw borders or make further distinctions nor to declare architecture alive, but to clarify what is currently happening in the blurred fields, and to investigate the emerging discipline of biomimetics in architecture" [Architekturbionik]. An overview of the present state of research in the relatively young scientific field of biomimetics shows the potential of the approach. The new discipline aims at innovation by making use of the subtle systems and solutions in nature having evolved within millions of years. Approaches that have been taken to transfer nature's principles to architecture have provided successful developments. The new approach presented in this book transfers the abstract concept of life onto built environment. Strategic search for life's criteria in architecture delivers a new view of architectural achievements and makes the innovative potential visible, which has not been exploited yet.

A selection of case studies illustrates the diversity of starting points: from vernacular architecture to space exploration.

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