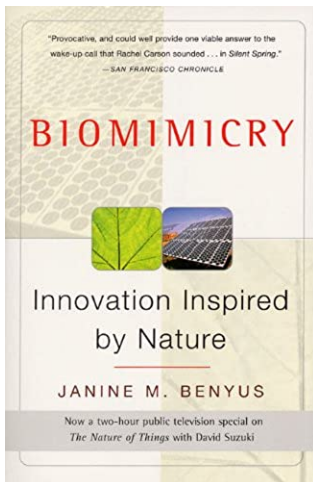


# [PDF] Biomimicry: Innovation Inspired By Nature

Janine M Benyus - pdf download free book

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## Books Details:

Title: Biomimicry: Innovation Inspir

Author: Janine M Benyus

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## Description:

This profound and accessible book details how science is studying nature's best ideas to solve our toughest 21st-century problems. If chaos theory transformed our view of the universe, biomimicry is transforming our life on Earth. Biomimicry is innovation inspired by nature - taking advantage of evolution's 3.8 billion years of R&D since the first bacteria. Biomimics study nature's best ideas: photosynthesis, brain power, and shells - and adapt them for human use. They are revolutionising how we invent, compute, heal ourselves, harness energy, repair the environment, and feed the world. Science writer and lecturer Janine Benyus names and explains this phenomenon. She takes us into the lab and out in the field with cutting-edge researchers as they stir vats of proteins to unleash their computing power; analyse how electrons zipping around a leaf cell convert sunlight into fuel in trillionths of a second; discover miracle drugs by watching what chimps eat when they're sick; study the hardy prairie as a model for low-maintenance agriculture; and more.

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Innovation inspired by nature. In a society accustomed to dominating or "improving" nature, this respectful imitation is a radically new approach, a revolution really. Unlike the Industrial Revolution, the Biomimicry Revolution introduces an era based not on what we can extract from nature, but on what we can learn from her. As you will see, "doing it nature's way" has the potential to change the way we grow food, make materials, harness energy, heal ourselves, store information, and conduct business. In a biomimetic world, we would manufacture the way animals and plants. What is Biomimicry you ask? Biomimicry is an approach to innovation that seeks sustainable solutions to human challenges by emulating nature's time-tested patterns and strategies. In short, biomimicry is the process of taking the innovations that exist in nature and applying them to technology. As stated by the Biomimicry Institute, "The core idea is that nature has already solved many of the problems we are grappling with. Animals, plants, and microbes are the consummate engineers. After billions of years of research and development, failures are fossils, and what surrounds us is th...". Here are nine innovations inspired by nature.

Kingfisher & The Shinkansen Train. Source: pixabay. Keywords Biomimicry, Sahara, architecture, nature, innovation, technology.

Introduction Biomimicry, defined as a new engineering inspired by Nature, for innovation in different fields, design, transportation, architecture. As an interdisciplinary field, architecture is influenced by many aspects of the natural and technology and social sciences. Among these influences, the inspiration of biology is currently dominant. The framework of bio-inspired design has evolved and turned into different innovative approaches, largely due to the development of computing and its use in architecture (Chayaam Looking to nature for inspiration, the engineers found the kingfisher bird. These birds dive headfirst into water to hunt their prey, but they make almost no splash at all because of the shape of their beak. So the train's noses were modeled after the long narrow Kingfisher beak. Once they changed this, not only did the trains get quieter, but they got faster and used less electricity.

4. Hooks and loops. Mother Nature Network. Most likely, scientists will continue to research biomimicry and innovate far into the future. And while nature takes a lot longer to innovate, we will surely keep finding new inspiration in its old inventions. By Sydney Baum-Haines. Change by Design\_ How Design Thinking Transforms Organizations and Inspires Innovation Tim Brown Where Good Ideas Come from: The Natural History of Innovation. 274 Pages 2011 1.34 MB 20,528 Downloads New! . Where Good Ideas Come from: The Natural History of Innovation Steven Johnson Origami Animal Sculpture: Paper Folding Inspired by Nature. 953 Pages 2018 32.52 MB 5,109 Downloads New! The nature of investing : resilient investment strategies through biomimicry Collins|Katherine Artificial Intelligence for Humans, Volume 2: Nature-Inspired Algorithms. 198 Pages 2014 6.68 MB 4,395 Downloads New! Nature can be a great source of inspiration for artificial intelligence algorithms because its