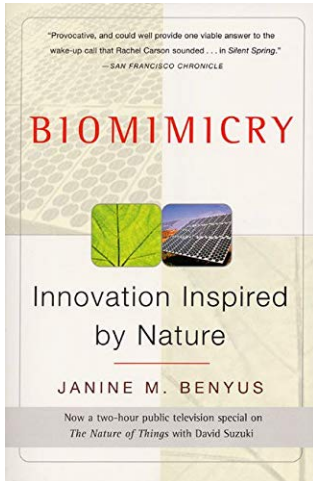


[PDF] Biomimicry: Innovation Inspired By Nature

Janine M. Benyus - pdf download free book



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Description:

From Library Journal Innovations, whether in farming, composite science, or computing, are a product of human creativity. Science writer Benyus (*Beastly Behaviors*, LJ 9/1/92) uses these subjects and others to demonstrate how nature's solutions to situations have been the creative jumping-off points for individuals seeking solutions, developing, or simply revitalizing processes or products. The first seven chapters are a prelude to the final chapter, which tackles industrial ecology. Here, Benyus proposes "ten lessons" that an ecologically astute company, culture, or economy could practice to promote a healthier existence for us all. There is no grandstanding, just readable language and a simple awe at human creativity and the uses to which it can be put. For popular science collections. —Michael D. Cramer, North

Carolina Dept. of Environmental Health and Natural Resources Lib., Raleigh
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unavailable edition of this title.

From Forget the notion that technology improves upon nature. Benyus introduces us to pioneering engineers making technological breakthroughs by uncovering and copying nature's hidden marvels. These engineers are devising solar fuel cells as efficient as plants, fibers as tough as abalone shell, and computers as sophisticated as the brain. For Benyus, though, a technology that mirrors nature does more than enlarge human powers and gratify human ambitions. Such a technology teaches us how to live in harmony with nature, rather than how to dominate it. Unless we learn this urgent lesson, Benyus warns, our highly unnatural and exploitative technologies will soon render the earth unfit for life. Sobering yet hopeful, this book will bring help bridge the dangerous chasm between technophiles and environmentalists. *Bryce Christensen* --This text refers to an out of print or unavailable edition of this title.

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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. Biomimicry: Innovation Inspired by Nature. By Janine M. Benyus. Start your free 30 days. Biomimicry is rapidly transforming life on earth. Biomimics study nature's most successful ideas over the past 3.5 million years, and adapt them for human use. The results are revolutionizing how materials are invented and how we compute, heal ourselves, repair the environment, and feed the world. Janine Benyus takes readers into the lab and in the field with maverick thinkers as they: discover miracle drugs by watching what chimps eat when they're sick; learn how to create by watching spiders weave fibers; harness energy by examining how a leaf converts sunlight into fuel in trillionths of a second. 8. 3.2. Organisation management inspired by nature. 10. 3.3. Biomimicry for business ... Towards morphogenetic architecture. A THESIS Table 1: A Framework for the Application of Biomimicry (adapted from Pedraza's Biomimetic Design Method for Innovation and Sustainability. 258 Pages 2017 15.51 MB 761 Downloads New! Presenting a novel biomimetic design method for transferring design solutions from nature to technology, this book focuses on Load more similar PDF files. PDF Drive investigated dozens of problems and listed the biggest global issues facing the world today. 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 the secret to... Here are nine innovations inspired by nature. Kingfisher & The Shinkansen Train. Source: pixabay. 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 do, using sun and simple