



Engineered Biomimicry

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Engineered Biomimicry



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Engineered Biomimicry covers a broad selection of research topics in the emerging discipline of biomimicry. Engineered Biomimicry assists physicists, engineers and material researchers seek solutions in nature to the most pressing specialized problems of our instances, while providing a good understanding of the important role of biophysics. From bioinspired processing and medical products to biomimetic applications like artificial muscles, MEMS, textiles and vision sensors, Constructed Biomimicry explores an array of technologies informed by living normal systems. Readers will figure out how to take suggestions and concepts such as this from nature, implement them in analysis, and understand and clarify varied phenomena and their related functions. (modeled following the spiny hooks on plant seeds and fruits). Biologically inspired technology and technology, using the concepts of math and physics, has resulted in the development of items as ubiquitous as Velcro™ Some physical applications consist of adhesion superhydrophobicity and self-washing, structural coloration, photonic devices, biomaterials and composite components, sensor systems, robotics and locomotion, and ultra-lightweight structures. Explores biomimicry, a fast-growing, cross-disciplinary field in which researchers study biological actions in nature to create critical advancements in technology and engineering. Introduces bioinspiration, biomimetics, and bioreplication, and provides biological background and practical applications for every Cutting-advantage topics include bio-inspired robotics, microflyers, surface modification and more



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A worthwhile read for engineers thinking about the subject The most detailed, and therefore best, book presently on the subject. Hubby loves it Hubby loves it A fine review of the current state of the art.

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