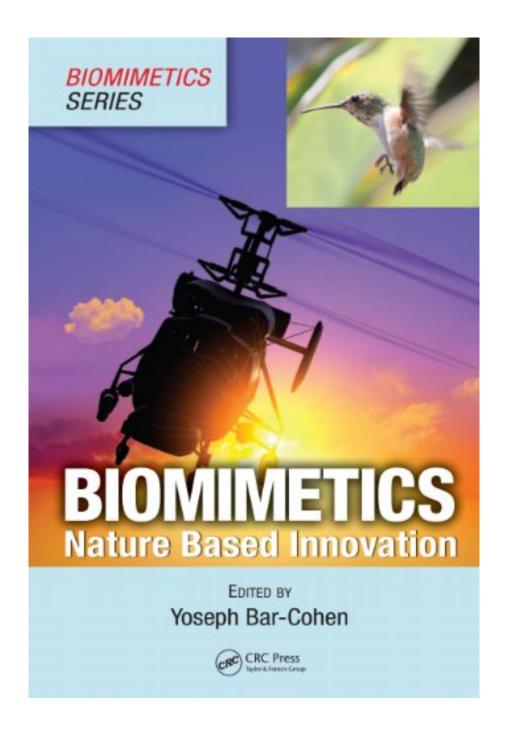


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Review

"... a convenient source of examples and literature references for engineering students interested in how natural patterns can be exploited in mechanical and materials engineering. ... will be of most interest to roboticists, who can profitably exploit many of the mechanisms it describes."

? Computing Reviews, June 2012

About the Author

Dr. Yoseph Bar-Cohen is a senior research scientist and a supervisor of the Advanced Technologies Group at the Jet Propulsion Laboratory, Pasadena, California. He received his PhD in physics (1979) from the Hebrew University, Jerusalem, Israel. Dr. Bar-Cohen discovered the ultrasonic wave phenomena polar backscattering (1979) and leaky lamb waves (1983) in composite materials.

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Humans have always looked to nature's inventions as a source of inspiration. The observation of flying birds and insects leads to innovations in aeronautics. Collision avoidance sensors mimic the whiskers of rodents. Optimization algorithms are based on survival of the fittest, the seed-picking process of pigeons, or the behavior of ant colonies. In recent years these efforts have become more intensive, with researchers seeking rules, concepts, and principles of biology to inspire new possibilities in materials, mechanisms, algorithms, and fabrication processes. A review of the current state of the art, Biomimetics: Nature Based Innovation documents key biological solutions that provide a model for innovations in engineering and science.

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