



Biomimetics in Materials Science: Self-Healing, Self-Lubricating, and Self-Cleaning Materials (Paperback)

By Michael Nosonovsky, Pradeep K. Rohatgi

Springer-Verlag New York Inc., United States, 2014. Paperback. Condition: New. 2012 ed.. Language: English . Brand New Book ***** Print on Demand *****.Biomimetics in Materials Science provides a comprehensive theoretical and practical review of biomimetic materials with self-healing, self-lubricating and self-cleaning properties. These three topics are closely related and constitute rapidly developing areas of study. The field of self-healing materials requires a new conceptual understanding of this biomimetic technology, which is in contrast to traditional engineering processes such as wear and fatigue. Biomimetics in Materials Science is the first monograph to be devoted to these materials. A new theoretical framework for these processes is presented based on the concept of multi-scale structure of entropy and non-equilibrium thermodynamics, together with a detailed review of the available technology. The latter includes experimental, modeling, and simulation results obtained on self-healing/lubricating/cleaning materials since their emergence in the past decade.

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