



Engineered Biomimicry

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Engineered Biomimicry: Chapter 10. Biomimetic Textiles



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In a sense, the archetype of bioinspiration for materials design and use is textiles. The field of biomimesis has spawned many fresh materials and continues to be a successful field of investigation. This chapter presents the existing state of bioinspiration in textiles, how this has led to improved fibrous materials, how it may inform our continued progress. In the last step in this journey, the relationship of biomimesis and textiles is performed and some outcomes revealed. Next, naturally plenty of, the discipline of biomimesis is presented and fleshed out with regards to its textile engineering importance. Finally, I present some prognostications on this issue. Because I have found many preconceived notions about the field that need addressing before the software of biomimetics to textiles could be really appreciated, I start out with an introduction to textiles. Third, some details on dietary fiber and textile science and engineering are talked about and biological ideas germane to our topic are presented.



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