

Biomimetics - biologically inspired technologies

Taylor&Francis - Biologically Inspired CRC Press Yoseph Bar



Description: -

- Animals.

Animals -- Juvenile literature.

Bionics.

Biomimetics.Biomimetics - biologically inspired technologies

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Tags: #Biomimicry #in #Action: #13 #Technologies #Inspired #by #Nature

Biomimetics and Biologically Inspired Materials

Absorbing shock like a woodpecker Woodpeckers are known for their exceptional excavating capacity. Swiss engineer George de Mestral patents Velcro.

Biologically Inspired Textiles

Using fibers made from oranges has been a great choice for them as they try to live by this motto. The structural transition of the viral capsid can be utilized in for selective uptake and deposition of minerals by controlling the solution pH.

Biomimicry, Biomimetics, Biologically Inspired Design : much more than inspiration

Biomimetic Technologies reviews the key materials and processes involved in this groundbreaking field, supporting theoretical background by outlining a range of applications. Demonstrates how nature's solutions to survival needs have been the creative jumping-off points for individuals seeking solutions to human challenges, developing, or simply revitalizing processes or products. Computational methodologies enable the direct exchange of information between fields of science that, until now, have been widely separated.

Biomimetic Technologies

Taking a systems perspective rather than focusing narrowly on materials or chemistry aspects, Biomimetics: Biologically Inspired Technologies examines the field from every angle. The plastic is resistant to damage from sunlight, weather and even dust.

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The bump-like tubercles on a humpback whale Megaptera Novaehangliae © Getty The humpback whale weighs an astonishing 36 tonnes, yet it is one of the most elegant swimmers, divers and jumpers in the sea. I think that the problems we face in the health care world are very different from those faced in nature.

Biologically Inspired Textiles

Effectively, by bio-inspiration we can have a better view and value of nature capability while studying its models to learn what can be extracted, copied or adapted. Now biophysicists at say that it matters which leaves you use- they recommend those with interconnected loops, which keep distribution going if there's a break somewhere in the network.

Biomimetic Technologies

The proposed bio-HCM has a regime of interfiber mesopores which acts as a mini reservoir. Sharklet Technologies, based in Aurora, Colorado, makes surface materials for hospitals, restaurant kitchens, public bathrooms and elsewhere that repel bacteria. Tiny capsules containing a healing agent are embedded in the polymer.

ShieldSquare

The , a mid-rise office complex in , stays cool without air conditioning and uses only 10% of the energy of a conventional building of the same size. To obtain optimal lift and minimal drag, sleek edges and clean lines are key.

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