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Bioinspired Photonics: Optical Structures and Systems Inspired by Nature

By Viktoria Greanya

Taylor & Francis Inc. Hardback. Book Condition: new. BRAND NEW, Bioinspired Photonics: Optical Structures and Systems Inspired by Nature, Viktoria Greanya, Harness the Wonders of the Natural World As our in-depth knowledge of biological systems increases, the number of devices and applications built from these principles is rapidly growing. Bioinspired Photonics: Optical Structures and Systems Inspired by Nature provides an interdisciplinary introduction to the captivating and diverse photonic systems seen in nature and explores how we take inspiration from them to create new photonic materials and devices. See How Photonic Systems in Nature Work The book presents important examples of how combining biological inspiration with state-of-the-art nanoscience is resulting in the emergence of a field focused on developing real improvements in materials and devices. The author walks readers through examples taken from nature, delves into their characterization and performance, and describes the unique features of their performance. She interweaves this material with discussions on fabricating synthetic versions of the systems as well as specific aspects of the biological examples that researchers are leveraging in their own work. Replicate and Take Inspiration from These Systems for Fabrication and Application Suitable for a multidisciplinary audience of scientists, technologists, students, and lay people,...



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