



Engineered Biomimicry

Edited by
Akhlesh Lakhtakia
Raúl J. Martín-Palma

Blayne M. Phillips and

Engineered Biomimicry: Chapter 12. Biomimetic Antireflection Surfaces



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The compound eyes of moths are composed by hexagonal arrays of non-close-packed nipples that exhibit low reflectance. These arrays of subwavelength nipples generate a graded changeover of refractive index, resulting in minimized reflection over a broad selection of wavelengths and angles of incidence. The outer surface of the cornea of a moth includes periodic arrays of conical protuberances, termed corneal nipples, typically of sub-250nm height and spacing., glass) and semiconductor wafers (such as crystalline silicon and GaAs) are discussed.g. In this chapter, the fabrication, characterization, and modeling of moth-attention antireflection coatings on both transparent substrates (e.



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