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82 | Topics in Applied Physics

Shalaev (Ed.)

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(Ed.)

# Optical Properties of Nanostructured Random Media



Optical Properties of  
Nanostructured Random Media

This book reviews recent advances in one of the most prominent fields of physics. The optics of random media displays a rich variety of effects, and some of these effects are hardly intuitive. Localization of various sorts of optical excitations occur and recur in a wide gamut of disordered systems, such as nanocomposite materials, metal-dielectric composites, layered structures, and metal films. Contributors to the book are world best experts in the optics of random media; they provide a state-of-the-art review of recent developments in the field including nonlinear optical and magneto-optical properties, Raman and hyper-Raman scattering, laser action, plasmon excitation and localized giant fields, and imaging as well as spectroscopy of random media.

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