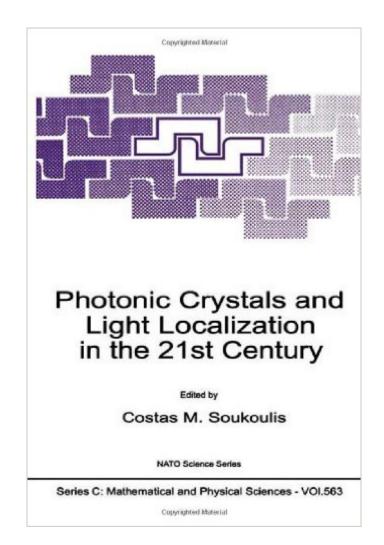
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Photonic Crystals And Light Localization In The 21st Century (NATO Science Series C: (closed))





Synopsis

The field of photonic band gap (PGB) materials, also called photonic crystals, is one of the most exciting new areas in physics and engineering. The materials play a unique role in controlling the propagation of electromagnetic waves, and innovative ways to manipulate such waves can have a profound influence on science and technology. The present book provides an excellent survey of the field of photonic crystals, random lasers and light localization, covering theoretical and experimental aspects as well as applications. The introductory lectures are accessible to non-specialists. New fabrication techniques and structures are presented with either dielectric or metallic components. Microwave, far-IR and optical applications are discussed (filters, mirrors, switches, waveguides, bends, splitters, antennas, etc.). Transmission, band structure and finite difference-time domain techniques are presented. Reviews of the random laser area and light localization are also presented.

Book Information

Series: NATO Science Series C: (closed) (Book 563) Hardcover: 616 pages Publisher: Springer; 1 edition (May 31, 2001) Language: English ISBN-10: 0792369475 ISBN-13: 978-0792369479 Product Dimensions: 1.5 x 6.5 x 9.2 inches Shipping Weight: 2.2 pounds (View shipping rates and policies) Average Customer Review: Be the first to review this item Best Sellers Rank: #12,911,562 in Books (See Top 100 in Books) #91 in Books > Computers & Technology > Programming > Software Design, Testing & Engineering > Localization #1848 in Books > Science & Math > Chemistry > Crystallography #2323 in Books > Textbooks > Engineering > Electrical & Electronic Engineering

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