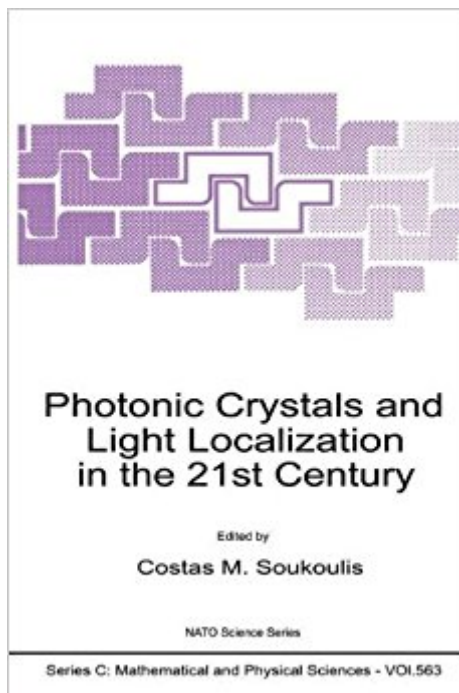




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Photonic Crystals And Light Localization In The 21st Century (Nato Science Series C:)



Synopsis

This volume contains papers presented at the NATO Advanced Study Institute (ASI) Photonic Crystals and Light Localization held at the Creta Maris Hotel in Limin Hersonissou, Crete, June 18-30, 2000. Photonic crystals offer unique ways to tailor light and the propagation of electromagnetic waves (EM). In analogy to electrons in a crystal, EM waves propagating in a structure with a periodically modulated dielectric constant are organized into photonic bands, separated by gaps where propagating states are forbidden. There have been proposals for novel applications of these photonic band gap (PBG) crystals, with operating frequencies ranging from microwave to the optical regime, that include zero-threshold lasers, low-loss resonators and cavities, and efficient microwave antennas. Spontaneous emission, suppressed for photons in the photonic band gap, offers novel approaches to manipulate the EM field and create high-efficiency light-emitting structures. Innovative ways to manipulate light can have a profound influence on science and technology.

Book Information

Series: Nato Science Series C: (Book 563)

Paperback: 605 pages

Publisher: Springer; 2001 edition (May 31, 2001)

Language: English

ISBN-10: 0792369483

ISBN-13: 978-0792369486

Product Dimensions: 6.1 x 1.4 x 9.2 inches

Shipping Weight: 1.8 pounds (View shipping rates and policies)

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