



Photonic Crystals, Theory, Applications and Fabrication (Wiley Series in Pure and Applied Optics)

Dennis W Prather, Ahmed Sharkawy, Shouyuan Shi, Janusz Murakowski, Garrett Schneider

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The Only Source You Need for Understanding the Design and Applications of Photonic Crystal-Based Devices

This book presents in detail the fundamental theoretical background necessary to understand the unique optical phenomena arising from the crystalline nature of photonic-crystal structures and their application across a range of disciplines. Organized to take readers from basic concepts to more advanced topics, the book covers:

Preliminary concepts of electromagnetic waves and periodic media


Numerical methods for analyzing photonic-crystal structures

Devices and applications based on photonic bandgaps

Engineering photonic-crystal dispersion properties

Fabrication of two- and three-dimensional photonic crystals

The authors assume an elementary knowledge of electromagnetism, vector calculus, Fourier analysis, and complex number analysis. Therefore, the book is appropriate for advanced undergraduate students in physics, applied physics, optics, electronics, and chemical and electrical engineering, as well as graduate students and researchers in these fields.

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Theodore Stewart:

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