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.

- A Photographic Pocket Field Guide to Insects Found in Northamptonshire
- Photonic Applications in Nonlinear Optics, Nanophotonics, and Microwave Photonics
- Photoshop Album For Dummies
- Physical Proofs of Another Life Given in Letters to the Seybert Commission
- Physical Media in Spiritual Manifestations : The Phenomena of Responding Tables and the Planchette and Their Physical Cause in the Nervous Organism, Illustrated from Ancient and Modern Testimonies
- Physical Experiments : A Laboratory Manual
- The Physics of Musical Instruments
- Physiognomy : Or the Corresponding Analogy Between the Conformation of the Features, and the Ruling Passions of the Mind (Classic Reprint)
- Photoshop X : Top 100 Simplified Tips and Tricks