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## Photonic Bandgap Structures Novel Technological Platforms for Physical, Chemical

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### About the ebook

This E-Book covers the research and the development of a novel generation of photonic devices for sensing applications. Key features of this book include a brief review of basic PhCs related design and fabrication concepts, a selection of crossover topics for the development of novel technological platforms for physical, chemical and biological sensing and a description of the main PhCs sensors to date by representing many of the exciting sensing applications that utilize photonic crystal structures.

### Contents

- ▶ Analysis of Photonic Crystal Structures
- ▶ Photonic Crystal Technologies: From Theories to Practice
- ▶ Photonic Crystal Fiber: Theory and Fabrication
- ▶ Nanostructured Organic Photonics
- ▶ Slow Light for Sensing
- ▶ Circular Bragg and Photonic Crystal Resonators
- ▶ Photonic Crystal Fiber for Chemical Sensing Using Surface-Enhanced Raman Scattering

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