

### Photonics, Set: Scientific Foundations, Technology and Application (A Wiley-Science Wise Co-Publication)

David L. Andrews

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Covers modern photonics accessibly and discusses the basic physical principles underlying all the applications and technology of photonics.

This volume covers the basic physical principles underlying the technology and all applications of photonics from statistical optics to quantum optics. The topics discussed in this volume are: Photons in perspective; Coherence and Statistical Optics; Complex Light and Singular Optics; Electrodynamics of Dielectric Media; Fast and slow Light; Holography; Multiphoton Processes; Optical Angular Momentum; Optical Forces, Trapping and Manipulation; Polarization States; Quantum Electrodynamics; Quantum Information and Computing; Quantum Optics; Resonance Energy Transfer; Surface Optics; Ultrafast Pulse Phenomena.

- Comprehensive and accessible coverage of the whole of modern photonics
- Emphasizes processes and applications that specifically exploit photon attributes of light
- Deals with the rapidly advancing area of modern optics
- Chapters are written by top scientists in their field

Written for the graduate level student in physical sciences; Industrial and academic researchers in photonics, graduate students in the area; College lecturers, educators, policymakers, consultants, Scientific and technical libraries, government laboratories, NIH.



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