

CHAPTER OVERVIEW

1: Basic Electromagnetic and Wave Optics

- 1.1: What You Should Know and be able to do After Studying This Chapter
- 1.2: Electromagnetic Theory of Optics and Quantum Optics
- 1.3: The Maxwell Equations in Vacuum
- 1.4: Maxwell Equations in Matter
- 1.5: The Scalar and Vector Wave Equation
- 1.6: Time-Harmonic Solutions of the Wave Equation
- 1.7: Time-Harmonic Maxwell Equations in Matter
- 1.8: Electromagnetic Energy
- 1.9: Time-Averaged Energy
- 1.10: Reflection and Transmission at an Interface
- 1.11: Fiber Optics

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