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By Larry C. Andrews, Ronald L. Phillips, Cynthia Y. Hopen



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Renewed interest in laser communication systems has sparked development of useful new analytic models. This book discusses optical scintillation and its impact on system performance in free-space optical communication and laser radar applications, with detailed look at propagation phenomena and the role of scintillation on system behavior.

Intended for practicing engineers, scientists, and students.

Contents

- Preface
- Symbols and Notation
- Optical Wave Propagation in Random Media: Background Review
- Modeling Optical Scintillation
- Theory of Scintillation: Plane Wave Model
- Theory of Scintillation: Spherical Wave Model
- Theory of Scintillation: Gaussian-Beam Wave Model
- Aperture Averaging
- Laser Communication Systems
- Fade Statistics for Lasercom Systems
- Laser Radar Systems: Scintillation of Return Waves
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