



Adaptive Beaming and Imaging in the Turbulent Atmosphere (SPIE Press Monograph Vol. PM109)

By Vladimir P. Lukin, Boris V. Fortes

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Due to the wide application of adaptive optical systems, an understanding of optical wave propagation in randomly inhomogeneous media has become essential, and several numerical models of individual AOS components and of efficient correction algorithms have been developed. This monograph contains detailed descriptions of the mathematical experiments that were designed and carried out during more than a decade's worth of research.

Contents

- Preface to the English edition
- Introduction
- Mathematical Simulation of Laser Beam Propagation in the Atmosphere
- Modeling an Adaptive Optics System
- Adaptive Imaging
- Minimization and Phase Correction of Thermal Blooming of High-Power Beams
- A Reference Beacon as a Key Element of an Adaptive Optics System
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