



Optical Systems and Processes (SPIE Press Monograph Vol. PM65)

Joseph Shamir

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A concise, comprehensive reference text covering electro-optical systems, optical system design, optical physics, holography, Fourier optics, and optical metrology. Emphasizes physical insight aimed at engineering applications. Suitable as an advanced undergraduate or graduate level text; problems and solutions are included.

Contents

- Preface
- Introduction
- Review of electromagnetic wave propagation
- Linear systems theory
- Wavefront transformations
- Basic optical systems
- Non-ideal optical systems
- Statistical aspects of light
- Interference and interferometers
- Polarization
- Spatial light modulation
- Holography
- Advanced operator algebra
- Optical information processing
- A: Summary of operator relations
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