



Optics, Light and Lasers

By Meschede, Dieter

Condition: New. Publisher/Verlag: Wiley-VCH | The Practical Approach to Modern Aspects of Photonics and Laser Physics | Dieses Buch ist genau richtig für Einsteiger in das Fachgebiet. Schwierige Effekte werden direkt und leicht verständlich präsentiert. Diese aktualisierte, erweiterte Auflage bietet neue Kapitel zu neuen Themen wie Plasmonik, Frequenzkämme auf Femto-Ebene und Quantenkaskadenlaser | 1 Light rays.1.1 Light rays in human experience.1.2 Ray optics.1.3 Reflection.1.4 Refraction.1.5 Fermat's principle: the optical path length.1.6 Prisms.1.7 Light rays in wave guides.1.8 Lenses and curved mirrors.1.9. Autofocus1.10 Matrix optics.1.11 Ray optics and particle optics.Problems for chapter 1.2 Wave optics.2.1 Electromagnetic radiation fields.2.2 Wave types.2.3 Gaussian beams.Add: Collins integral2.3. Beyond Gaussian Beams2.4 Polarization.2.5 Diffraction.Problems for chapter 2.3 Light propagation in matter.3.1 Dielectric interfaces.3.2 Complex refractive index.3.3 Optical wave guides and fibres.3.4 Functional types and applications of optical fibres.3.6 Photonic materials.NEW: Nano-Optis and Plasmonics3.7 Light pulses in dispersive materials.3.8 Anisotropic optical materials.3.9 Optical modulators.Problems for chapter 3.4 Optical images.4.1 The human eye.4.2 Magnifying glass and eyepiece.4.3 Microscopes.4.4 Telescopes.4.5 Lenses: designs and aberrations.4.6. Aspherical lensesProblems for chapter 4.5 Coherence and interferometry.5.1 Young's double slit.5.2 Coherence and correlation.5.3 The double-slit experiment.5.4 Michelson interferometer: longitudinal coherence.5.5 Fabry-Perot interferometer.5.6 Optical cavities.update: Microresonators5.7 Thin optical films.5.8 Holography.5.9 Laser speckle (laser granulation).Problems for...



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