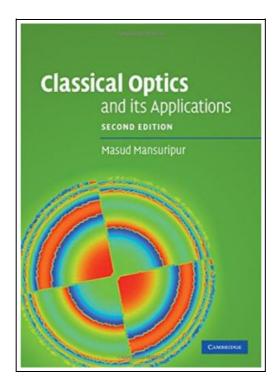
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Cambridge University Press, 2009. Hardcover. Book Condition: New. 2nd edition. Covering a broad range of fundamental topics in classical optics and electro-magnetism, this book is ideal for graduate-level courses in optics, providing supplementary reading materials for teachers and students alike. Industrial scientists and engineers developing modern optical systems will also find it an invaluable resource. Now in color, this second edition contains 13 new chapters, covering optical pulse compression, the Hanbury Brown-Twiss experiment, the Sagnac effect, Doppler shift and stellar aberration, and optics of semiconductor diode lasers. The first half of the book deals primarily with the basic concepts of optics, while the second half describes how these concepts can be used in a variety of technological applications. Each chapter is concerned with a single topic, developing an understanding through the use of diagrams, examples, numerical simulations, and logical arguments. The mathematical content is kept to a minimum to provide the reader with insightful discussions of optical phenomena. Contents Preface Introduction 1. Abbe?s sine condition 2. Fourier optics 3. Effect of polarization on diffraction in systems of high numerical aperture 4. Gaussian beam optics 5. Coherent and incoherent imaging 6. First-order temporal coherence in classical optics 7. The Van Cittert-Zernike theorem 8. Partial polarization, Stokes parameters, and the Poincarè Sphere 9. Second-order coherence and the Hanbury Brown ? Twiss experiment 10. What in the world are surface plasmons? 11. Surface plasmon polaritons on metallic surfaces 12. The Faraday effecy 13. The mag neto-optical Kerr effect 14. The Sagnac interferometer 15. Fabry-Perot etalons in polarized light 16. The Ewald-Oseen extinction theorem 17. Reciprocity in classical Linear optics 18. Optical pulse compression 19. The uncertainty principle in classical optics 20. Omni-directional dielectric mirrors 21. Optical vortices 22. Geometric-optical rays, Poynting?s vector, and field momenta 23. Doppler shift, stellar aberration, and convection of light...

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