

CLASSICAL OPTICS AND ITS APPLICATIONS

Second Edition

Covering a broad range of fundamental topics in classical optics and electromagnetism, 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.

MASUD MANSURIPUR received a Bachelor of Science degree in Electrical Engineering from Arya-Mehr University of Technology in Tehran, Iran (1977), a Master of Science in Electrical Engineering from Stanford University (1978), a Master of Science in Mathematics from Stanford University (1980), and a Ph.D. in Electrical Engineering from Stanford University (1981). He has been Professor of Optical Sciences at the University of Arizona since 1988. His areas of research include optical data storage, optical signal processing, magneto-optical properties of thin magnetic films, radiation pressure, interaction of light with sub-wavelength structures, and the optical and thermal characterization of thin films and stacks. A Fellow of the Optical Society of America, he has published more than 250 papers in various technical journals, holds eight patents, has given numerous invited talks at international scientific conferences, and has been a contributing editor of *Optics & Photonics News*, the magazine of the Optical Society of America. Professor Mansuripur's published books include *Introduction to Information Theory* (1987) and *The Physical Principles of Magneto-optical Recording* (1995).

Classical Optics And Its Applications

Richard Bailey



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