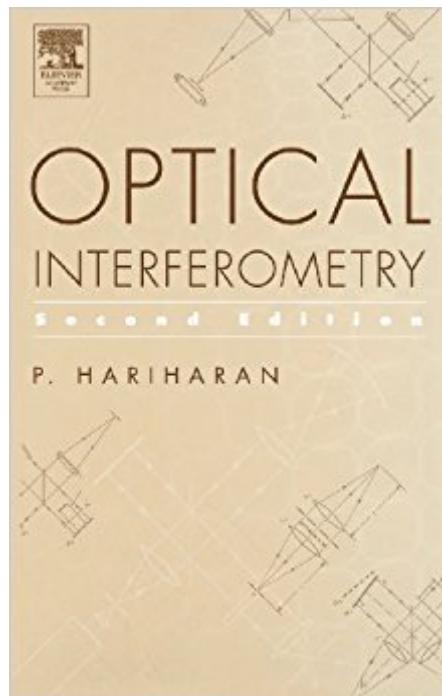


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Optical Interferometry, 2e



Synopsis

When the first edition of Optical Interferometry was published, interferometry was regarded as a rather esoteric method of making measurements, largely confined to the laboratory. Today, however, besides its use in several fields of research, it has applications in fields as diverse as measurement of length and velocity, sensors for rotation, acceleration, vibration and electrical and magnetic fields, as well as in microscopy and nanotechnology. Most topics are discussed first at a level accessible to anyone with a basic knowledge of physical optics, then a more detailed treatment of the topic is undertaken, and finally each topic is supplemented by a reference list of more than 1000 selected original publications in total.

The historical development of interferometry, The laser as a light source, Two-beam interference, Techniques for frequency stabilization, Coherence, Electronic phase measurements, Multiple-beam interference, Quantum effects in optical interference, Extensive coverage of the applications of interferometry, such as measurements of length, optical testing, interference microscopy, interference spectroscopy, Fourier-transform spectroscopy, interferometric sensors, nonlinear interferometers, stellar interferometry, and studies of space-time and gravitation.

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Customer Reviews

This book is of interest to students in physics and optics, and also as a research reference. It gives a concise and clear presentation of some recent developments in interferometry, although these are

so numerous that complete descriptions are not possible in a book of reasonable size. The mathematical derivations are treated in the classical formalism and are thus easily accessible to most students.--PHYSICS TODAY...Harihan's book is a good study tool owing to its clear presentation of the basic principles underlying these beautiful new applications.--PHYSICS TODAY
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Nanotechnology, sensor and measurement industries depend on these advances in optical interferometry for accuracy and profitability.

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