

Recording device



Coloured interferogram



Beam splitter

White light

Coated glass disc



Steel ball

Optical Interferometry

Clemens Wendtner

Optical Interferometry:

Optical Interferometry, 2e P. Hariharan, 2003-10-20 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. 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.

Practical Optical Interferometry David F. Buscher, 2015-07-28 A practically focused guide to optical interferometry bringing together core concepts needed to plan observations, analyse data and reconstruct images.

Interference David D. Nolte, 2023-05-17 Ever wonder why soap bubbles become invisible right before they pop? Or why lenses are so blue they look purple? How is it possible to image black holes at the heart of distant galaxies? The answer to all these questions is Interference. This book tells the story of the science of optical interferometry, mankind's most sensitive form of measurement, and of the scientists who tamed light to make outstanding discoveries from lasers and holograms to astronomy and quantum physics. In the past several years, interferometry has been used to discover exoplanets orbiting distant stars, to take the first image of a black hole, to detect the first gravitational waves, and to create the first programmable quantum computer. This list of achievements points to the fertile and active field of interferometry for which this book provides a convenient and up-to-date guide for a wide audience interested in the science of light.

Optical Interferometry Maurice Françon, 1966 Coherence produced by thermal luminous sources, Interferences of two waves by wavefront division, Interferences of two waves by amplitude division, Two beam interferometers, Standing waves, Multiple beam interferences, Polarization interferometers, Interference and partial coherence, Intensity interferometer, Interferences with lasers, Interferential study of wavefronts, Interferometric measurement of the transfer function of an optical instrument, Noncoherent illumination, Thin films, Interference spectroscopy, Application of interferences for the measurement of length, Diverse applications of interference.

Optical Interferometry for Biology and Medicine David D. Nolte, 2011-12-04 This book presents the fundamental physics of optical interferometry as applied to biophysical, biological and medical research. Interference is at the core of many types of optical detection and is a powerful probe of cellular and tissue structure in interference microscopy and in optical coherence tomography. It is also the root

cause of speckle and other imaging artefacts that limit range and resolution For biosensor applications the inherent sensitivity of interferometry enables ultrasensitive detection of molecules in biological samples for medical diagnostics In this book emphasis is placed on the physics of light scattering beginning with the molecular origins of refraction as light propagates through matter and then treating the stochastic nature of random fields that ultimately dominate optical imaging in cells and tissue The physics of partial coherence plays a central role in the text with a focus on coherence detection techniques that allow information to be selectively detected out of incoherent and heterogeneous backgrounds Optical Interferometry for Biology and Medicine is divided into four sections The first covers fundamental principles and the next three move up successive scales beginning with molecular interferometry biosensors moving to cellular interferometry microscopy and ending with tissue interferometry biomedical An outstanding feature of the book is the clear presentation of the physics with easy derivations of the appropriate equations while emphasizing rules of thumb that can be applied by experimental researchers to give semi quantitative predictions

Optical Metrology with Interferometry Dahi Ghareab Abdelsalam Ibrahim,2019-07-31 The accurate measurements of surface topography are becoming important to many applications in both engineering and science Optical interferometry is considered a preferable technique for featuring accurate 3D surface profiling since it is non contacting non destructive and highly accurate In combination with computers and other electronic devices optical interferometry has become faster more reliable more convenient and more robust There is now a wealth of new optical interferometry techniques on the market or being developed in academia that can measure surface topography with high precision Each method has both its strong points and its limitations This book explains in detail the basics of optical interferometry their common language generic features and limitations and their simulation and uncertainties Moreover it provides an introduction to new frontiers in optical interferometry including terahertz technology and optical frequency combs

Optical Interferometry Alexandr Banishev,Jue Wang,Mithun Bhowmick,2017-02-15

Optical methods of measurements are the most sensitive techniques of noncontact investigations and at the same time they are fast as well as accurate which increases reproducibility of observed results In recent years the importance of optical interferometry methods for research has dramatically increased and applications range from precise surface testing to finding extrasolar planets This book covers various aspects of optical interferometry including descriptions of novel apparatuses and methods application interferometry for studying biological objects surface qualities materials characterization and optical testing The book includes a series of chapters in which experts share recent progress in interferometry through original research and literature reviews

Basics of Interferometry P. Hariharan,2007 Optical interferometry is used in communications medical imaging astronomy and structural measurement With the use of an interferometer engineers and scientists are able to complete surface inspections of micromachined surfaces and semiconductors Medical technicians are able to give more concise diagnoses with the employ of interferometers in

microscopy spectroscopy and coherent tomography Originating from a one day course this material was expanded to serve as an introduction to the topic for engineers and scientists that have little optical knowledge but a need for more in their daily work lives The need for interferometry knowledge has crossed the boundaries of engineering fields and Dr Hariharan has written a book that answers the questions that new practitioners to interferometry have and haven't even thought of yet This new edition includes complete updates of all material with an emphasis on applications It also has new chapters on white light microscopy and interference with single photons Outstanding introduction to the world of optical interferometry with summaries at the beginning and end of each chapter several appendices with essential information and worked numerical problems Practical details enrich understanding for readers new to this material New chapters on white light microscopy for medical imaging and interference with single photons quantum optics **Principles of Optical Interferometry** Olga Moreira,2021-12 Principles of Optical Interferometry is an edited book consisting of 19 contemporaneous open access articles featuring different aspects of optical interferometry from heterodyne to speckle interferometry It includes methodologies of interferometric fringe analysis as well the applications of Fabry Perot Fizeau and Mach Zehnder Interferometers It introduces to a class of recent interferometer designs such as the Point Diffraction Interferometer Radial Shearing Interferometer Fiber Optic Ring Resonator Interferometer and a Neural Network Based Laser Interferometer Reading this book requires some knowledge in calculus differential equations electromagnetism and general topics in interferometry This book is intended to reach an academic audience ranging from Science undergraduate students to experienced researchers **Optical Interferometry** M. Françon,1966 **Interferometry by Holography** Y.I.

Ostrovsky,M.M. Butusov,G.V. Ostrovskaya,2013-04-17 This book is an introduction to holographic interferometry a field of holography having a great number of important and practically useful applications It is intended for specialists working in the field of optics and holography and also for students of the relevant specialities At present a greater and greater number of mechanical engineers turbine designers testers of diverse equipment biologists crystallographers and so on have to do with holographic interferometry To allow these specialists who are comparatively far from optics to master the subject too the main content of the book is preceded by an introductory chapter treating the fundamental concepts of the interference of light optical interferometry holography and holographic interferometry The following chapters deal with the fundamentals of the theory of holographic interferometry and of experimental equipment The authors have set themselves the task of sharing their more than ten years of experience of work in the field of holographic interferometry with their readers In this connection the questions which they dealt with directly are considered in somewhat greater detail as a rule than those with which they have become acquainted only from publications on the subject A sufficiently detailed although far from complete bibliography gives any interested reader an opportunity to improve his knowledge of this field **Interferometry for**

Amateur Telescope Makers William Zmek,2017 Introduction What are interferometers and how do they work

Interferometer types useful for optical metrology Measurement accuracy Some practical matters More practical matters Use of a laser Wavefront shapes as interference patterns The williams interferometer The bath common path interferometer Setting up to perform a test Recording the interference pattern Digital interferogram analysis Epilog **Phase Estimation in Optical Interferometry** Pramod Rastogi,Erwin Hack,2014-11-21 Phase Estimation in Optical Interferometry covers the essentials of phase stepping algorithms used in interferometry and pseudointerferometric techniques It presents the basic concepts and mathematics needed for understanding the phase estimation methods in use today The first four chapters focus on phase retrieval from image transforms using a single frame The next several chapters examine the local environment of a fringe pattern give a broad picture of the phase estimation approach based on local polynomial phase modeling cover temporal high resolution phase evaluation methods and present methods of phase unwrapping The final chapter discusses experimental imperfections that are liable to adversely influence the accuracy of phase measurements Responding to the push for the deployment of novel technologies and fast evolving techniques this book provides a framework for understanding various modern phase estimation methods It also helps readers get a comparative view of the performance and limitations of the approaches *Optical Interferograms, Reduction and Interpretation* Arthur Henry Guenther,D. H. Liebenberg,1978

New Tribological Ways Taher Ghrib,2011-04-26 This book aims to recapitulate old information s available and brings new information s that are with the fashion research on an atomic and nanometric scale in various fields by introducing several mathematical models to measure some parameters characterizing metals like the hydrodynamic elasticity coefficient hardness lubricant viscosity viscosity coefficient tensile strength It uses new measurement techniques very developed and nondestructive Its principal distinctions of the other books that it brings practical manners to model and to optimize the cutting process using various parameters and different techniques namely using water of high velocity stream tool with different form and radius the cutting temperature effect that can be measured with sufficient accuracy not only at a research lab and also with a theoretical forecast This book aspire to minimize and eliminate the losses resulting from surfaces friction and wear which leads to a greater machining efficiency and to a better execution fewer breakdowns and a significant saving A great part is devoted to lubrication of which the goal is to find the famous techniques using solid and liquid lubricant films applied for giving super low friction coefficients and improving the lubricant properties on surfaces

Optical Frequency-Modulated Continuous-Wave (FMCW) Interferometry Jesse Zheng,2005-01-04 This book introduces the optical frequency modulated continuous wave FMCW interferometry a new field of optics that is derived from radar The study of optical FMCW interference not only updates our knowledge about the nature of light but also creates an advanced technology for precision measurements The principles applications and signal processing of optical FMCW interference are systematically discussed This book is intended for scientists and engineers in both academia and industry It is especially suited to professionals who are working in the field of measurement instruments **An Introduction to Optical Stellar**

Interferometry A. Labeyrie, S. G. Lipson, P. Nisenson, 2006-06-29 During the last two decades optical stellar interferometry has become an important tool in astronomical investigations requiring spatial resolution well beyond that of traditional telescopes. This book first published in 2006 was the first to be written on the subject. The authors provide an extended introduction discussing basic physical and atmospheric optics which establishes the framework necessary to present the ideas and practice of interferometry as applied to the astronomical scene. They follow with an overview of historical operational and planned interferometric observatories and a selection of important astrophysical discoveries made with them. Finally they present some as yet untested ideas for instruments both on the ground and in space which may allow us to image details of planetary systems beyond our own. Scientific and Technical Aerospace Reports, 1988 *Aperture Synthesis* Swapan Kumar Saha, 2010-10-17 This book deals with the fundamentals of stellar interferometry with emphasis on aperture synthesis using sparse array of telescopes particularly at optical/IR wavelengths. The origin, properties and optical effects of turbulence in the Earth's atmosphere, techniques developed to overcome image degradation. Studded with more than one hundred and fifty illustrations and tens of footnotes, it addresses the basic tricks of trade, current trend, motivation, methods and path to future promise of true interferometry both from the ground and space. Also discussed are the technical challenges involved such as beam transportation and recombination, detecting fringes using modern sensors and image synthesis. Astronomical science that benefits from aperture synthesis imaging are highlighted as well. **Precision Optical**

Interferometry in Space National Aeronautics and Space Administration (NASA), 2018-07-10 POINTS an astrometric Optical interferometer with a nominal measurement accuracy of 5 microarcseconds for the angle between a pair of stars separated by about 90 deg is presently under consideration by two divisions of NASA OSSA. It will be a powerful new multi-disciplinary tool for astronomical research. If chosen as the TOPS 1 Toward Other Planetary Systems instrument by the Solar System Exploration Division it will perform a definitive search for extra solar planetary systems either finding and characterizing a large number of them or showing that they are far less numerous than now believed. If chosen as the AIM Astrometric Interferometry Mission by the Astrophysics Division, POINTS will open new areas of astrophysical research and change the nature of the questions being asked in some old areas. In either case it will be the first of a new class of powerful instruments in space and will prove the technology for the larger members of that class to follow. Based on a preliminary indication of the observational needs of the two missions we find that a single POINTS mission will meet the science objectives of both TOPS 1 and AIM. The instrument detects dispersed fringe channel led spectrum and therefore can tolerate large pointing errors. Reasenberg Robert D Unspecified Center

Optical Interferometry Book Review: Unveiling the Power of Words

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