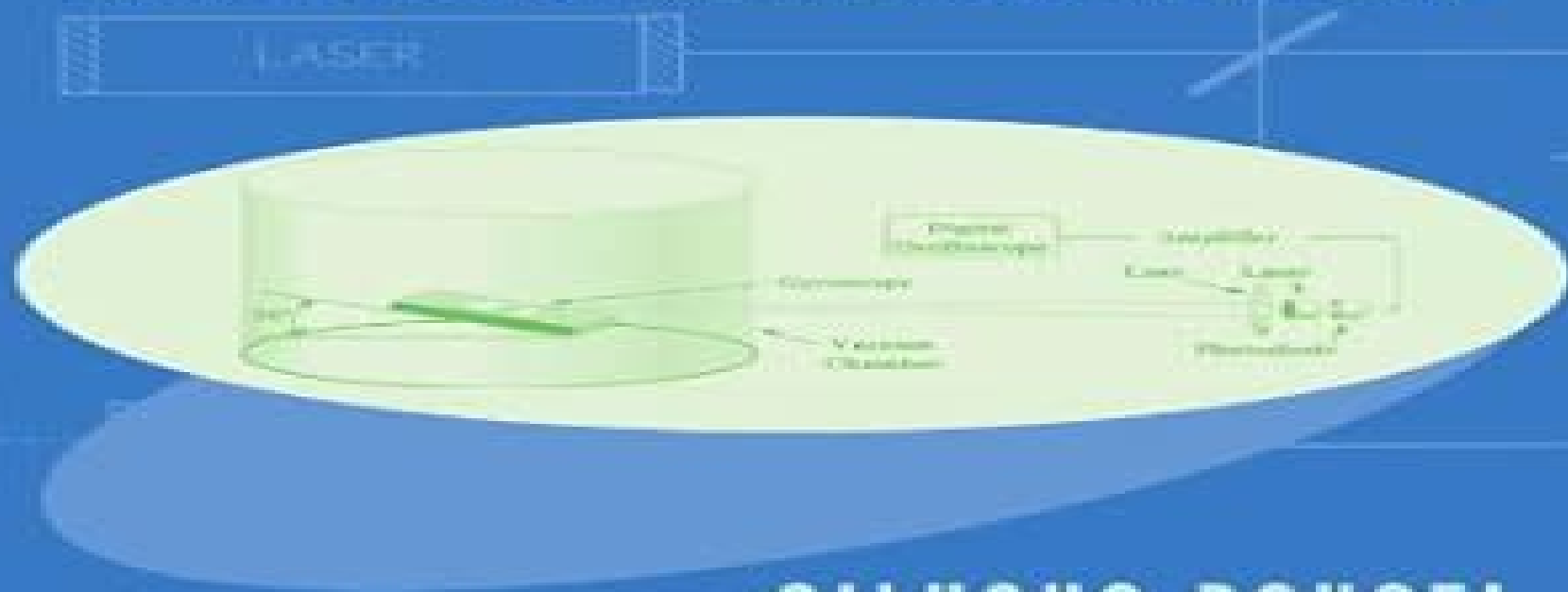


ELECTRO-OPTICAL INSTRUMENTATION

SENSING AND MEASURING WITH LASERS



SILVANO DONATI

Electro Optical Instrumentation Sensing And Measuring With Lasers

**Gabor L. Hornyak, John J. Moore, H.F.
Tibbals, Joydeep Dutta**



Electro Optical Instrumentation Sensing And Measuring With Lasers:

Photonic Instrumentation Silvano Donati, 2023-06-30 Photonic Instrumentation Sensing and Measuring with Lasers is designed as a source for university level courses covering the essentials of laser based instrumentation and as a useful reference for working engineers Photonic instruments have very desirable features like non contact operation and unparalleled sensitivity They have quickly become a big industrial success passing unaffected through the bubble years and not any less important well established methods in measurement science This book offers coverage of the most proven instruments with a balanced treatment of the optical and electronic aspects involved It also attempts to present the basic principles develop the guidelines of design and evaluate the ultimate limits of performances set by noise The instruments surveyed include alignment instruments such as wire diameter and particle size analyzers telemeters laser interferometers and self mixing interferometers and speckle pattern instruments laser doppler velocimeters gyroscopes optical fiber sensors and quantum sensing A few appendices offer convenient reference material for key principles on lasers optical interferometers propagation scattering and diffraction *Electro-Optical Instrumentation: Sensing and Measuring with Lasers* Silvano Donati, Silvano Donati - University of Pavia, 2004 The complete practical sourcebook for laser sensing and measurement This is a systematic up to date guide to laser instrumentation for sensing and measurement in contemporary scientific industrial automotive and avionics applications Dr Silvano Donati presents clear design rules and useful hints for practical implementation of a wide variety of laser instruments For each type of instrument the author outlines basic principles physical limitations reasonable performance expectations optical design issues and electronic signal handling illustrated with block schemes Coverage includes Interferometers for sub micrometer displacement measurements Nanometer vibrometers and structural integrity testing Doppler velocimeters for anemometry of fluids Range finders and anti collision systems Non contact wire diameter and particle diameter sizing Alignment and level meter apparatuses Ring laser and optical fiber gyroscopes Optical fiber sensors Thorough and accessible Electro Optical Instrumentation offers balanced coverage of both optical and electronic issues and challenges It will give working electronic engineers and scientists the knowledge they need to design virtually any electro optical instrumentation system PRENTICE HALL Upper Saddle River NJ 07458 www.phptr.com [Electro-Optical Instrumentation Sensing And Measureing With Lasers](#) Donati, [Sensors and Microsystems](#) Piero Malcovati, Andrea Baschirotto, Arnaldo d'Amico, Corrado Natale Di, 2010-03-14 Sensors and Microsystems contains a selection of papers presented at the 14th Italian conference on sensors and microsystems It provides a unique perspective on the research and development of sensors microsystems and related technologies in Italy The scientific values of the papers also offers an invaluable source to analysts intending to survey the Italian situation about sensors and microsystems In an interdisciplinary approach many aspects of the disciplines are covered ranging from materials science chemistry applied physics electronic engineering and biotechnologies Further details of the conference and

its full program at the website <http://www.microelectronicsevents.com> **AISEM Advanced Interferometers and the Search for Gravitational Waves** Massimo Bassan, 2014-07-08 The search for gravitational radiation with optical interferometers is gaining momentum worldwide Beside the VIRGO and GEO gravitational wave observatories in Europe and the two LIGOs in the United States which have operated successfully during the past decade further observatories are being completed KAGRA in Japan or planned ILIGO in India The sensitivity of the current observatories although spectacular has not allowed direct discovery of gravitational waves The advanced detectors Advanced LIGO and Advanced Virgo at present in the development phase will improve sensitivity by a factor of 10 probing the universe up to 200 Mpc for signal from inspiraling binary compact stars This book covers all experimental aspects of the search for gravitational radiation with optical interferometers Every facet of the technological development underlying the evolution of advanced interferometers is thoroughly described from configuration to optics and coatings and from thermal compensation to suspensions and controls All key ingredients of an advanced detector are covered including the solutions implemented in first generation detectors their limitations and how to overcome them Each issue is addressed with special reference to the solution adopted for Advanced VIRGO but constant attention is also paid to other strategies in particular those chosen for Advanced LIGO

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