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Handbook of Holographic Interferometry: Optical and ...
The book presents the principles and methods of holographic interferometry - a coherent-optical measurement technique for deformation and stress analysis, for the determination of refractive-index distributions, or applied to non-destructive testing.

Digital holographic microscopy - Wikipedia
Holographic interferometry is one of the most useful applications of holography. It allows measurement of the phase of an object or a scene, which evolves over time. In particular, it can measure the phase variations resulting from surface displacements or deformations of solids, the shape of objects or variations of refractive index in transparent media, to name of few.

Holographic Interferometry - Handbook of Holographic ...
Handbook of Optical Holography H. J. CAULFIELD Aerodyne Research, Inc. Bedford, Massachusetts ... 10.4 HOLOGRAPHIC INTERFEROMETRY/Gera/d B. Brandt 463 ... References 572 10.8 OPTICALLY RECORDED HOLOGRAPHIC OPTICAL ELEMENTS/Dona/d H. Close 573 References 585 IX . Contents 10.9 SPECTROSCOPY/H. J. Cauffield 587 References 594

Handbook of Optical Holography - GBV
Topics of interest include integral transforms, description of a hologram, Fraunhofer holograms, local reference beam holograms, estimation of image brightness, the holographic ray-tracing equations, holographic systems, hologram copying, and holographic portraiture.

Handbook of Holographic Interferometry | Wiley Online Books
Equation (2.46) forms the basis for the numerical forward and backward propagation of wave fields in digital holography for diverse applications ranging from holographic interferometry [75] to ...

Handbook Of Holographic Interferometry Optical
Handbook of Holographic Interferometry: Optical and Digital Methods [Thomas Kreis] on Amazon.com. *FREE* shipping on qualifying offers. The book presents the principles and methods of holographic interferometry - a coherent-optical measurement technique for deformation and stress analysis

Handbook of Holographic Interferometry | Request PDF
Handbook of holographic interferometry : optical and digital methods. [Thomas Kreis] -- The book presents the principles and methods of holographic interferometry - a coherent-optical measurement technique for deformation and stress analysis, for the determination of refractive-index ...

Handbook of Optical Holography - 1st Edition
The main part of this book is a set of step-by-step instructions for building a holography lab in a garage and equipping it with a sand-table, appropriate optical items with home-made holders, and a processing area. This part of the book is very good indeed. The remainder contains holographic layouts which are sound....

Optical Holography | ScienceDirect
Digital holographic microscopy. Other closely related microscopy methods to digital holographic microscopy are interferometric microscopy, optical coherence tomography and diffraction phase microscopy. Common to all methods is the use of a reference wave front to obtain amplitude (intensity) and phase information.

Handbook of optical holography - NASA/ADS
Handbook of Optical Holography is composed of 10 chapters that readers can turn to for specific questions regarding holography. This book begins by elucidating the classification of holograms, major types of holograms, and variations.

Wiley: Handbook of Holographic Interferometry: Optical and ...
Handbook of Holographic Interferometry Optical and Digital Methods WILEY-VCH WILEY-VCH Verlag GmbH & Co. KGaA ... 1.2 Historical Developments 3 1.3 Holographic Interferometry as a Measurement Tool 6 2 Optical Foundations of Holography 9 2.1 LightWaves 9 2.1.1 Solutions of the Wave Equation 9 ... 6.10.4 Holographic Interferometry of Circular ...

Project MUSE - <italic>Handbook of Optical Holography ...
Handbook of holographic interferometry : optical and digital methods. [Thomas Kreis] -- "This book gives a comprehensive overview of the physical principles, the algorithmic realizations, and various applications of holographic interferometry as a measurement tool in nondestructive ...

CHAPTER 23 HOLOGRAPHY AND HOLOGRAPHIC INSTRUMENTS
Hence, holographic interferometry is a non-destructive optical method that allows the remote detection of non-visible anomalies recording the surface response in one instance for all surface ...

Handbook of holographic interferometry : optical and ...
Holographic interferometry (HI) is a technique which enables static and dynamic displacements of objects with optically rough surfaces to be measured to optical interferometric precision. These measurements can be applied to stress, strain and vibration analysis, as well as to non-destructive testing and radiation dosimetry. It can also be used to detect optical path length variations in transparent media, which enables, for example, fluid flow to be visualised and analyzed. It can also be used

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Handbook of holographic interferometry : optical and ...
Recording and Reconstruction of a Double Exposure Holographic Interferogram. Recording and Reconstruction of a Real Time Holographic Interferogram. Time Average Holography. Interference Phase Variation Due to Deformation. Interference Phase Variation Due to Refractive Index Variation. Computer Simulation of Holographic Interference Patterns

Holographic interferometry - Wikipedia
Optical Holography deals with the use of optical holography to solve technical problems, with emphasis on the properties of holograms formed with visible light. Topics covered include the Fourier transform, propagation and diffraction, pulsed-laser holography, and optical systems with spherical lenses.

Handbook of Holographic Interferometry
2 3 . 4 HOLOGRAPHIC INTERFEROMETRY Interferometry provides a means of measuring optical path dif ferences through the analysis of fringe patterns formed by the interference of coherent light waves. Optical path dif ferences of interest may be produced by mechanical displacements, variations in the

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