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Thomas Kreis Handbook of Holographic Interferometry Optical and Digital Methods WILEY-VCH Verlag GmbH & Co.KGaA Titelei Kreis 03.09.2004 13:24 Uhr Seite 3 Optical and Digital Methods Optical Holography deals with the use of optical holography to solve technical problems, with emphasis on the properties of holograms formed with visible light.

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Holographic Interferometry Aim: Covers the basics of frozen fringe, live fringe and time averaged holography in simple geometries. Contents: Concepts of Interferometry. Types of Holographic Interferometry. TwoWaveInterferometry. Rigid Object Restriction. Time Averaged Holography A P P L I E D O P T I C S G R O U P D E P A R T M E N T o f P H Y S I C

Topic 9: Holographic Interferometry

Holographic interferometry (HI), which provides interferometric comparison of real objects or events separated in time and space, is a technique of unparalleled applications. Various kinds of HI have been developed, e.g., real-time, double-exposure, and time-averaged HI. Furthermore, HI can be performed with one, two, or more reference waves, which can be of the same or different wavelengths.

Holographic Interferometry - an overview | ScienceDirect ...

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 (i.e. to fractions of a wavelength of light). These measurements can be applied to stress, strain and vibration analysis, as well as to non-destructive testing and radiation dosimetry.

Holographic interferometry - Wikipedia

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 distributions, or applied to non-destructive

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Optical Holography - 1st Edition

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This ten-chapter handbook deals with various important aspects of optical holography. Ten major areas are considered: (1) introduction to optical holography; (2) background; (3) classification of holograms; (4) major hologram types; (5) hologram variations; (6) image formation; (7) cardinal points and principal rays for holography; (8) equipment and procedures; (9) special problems; and (10 ...

Handbook of optical holography - NASA/ADS

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.

Optical Holography | ScienceDirect

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 ...

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