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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.

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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 ...

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Holographic interferometry (HI) is a technique which

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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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Holographic interferometry - Wikipedia

Optical Holography deals with the use of optical

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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.

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Holographic Interferometry - Handbook of Holographic



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Brandt 463 ... References 572 10.8 OPTICALLY  
RECORDED HOLOGRAPHIC OPTICAL  
ELEMENTS/Dona/d H. Close 573 References 585 IX .  
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References 594

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

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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.

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.

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Holography ...

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interferometry - a coherent-optical measurement technique for deformation and stress analysis

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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.

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2 3 . 4 HOLOGRAPHIC INTERFEROMETRY

Interferometry provides a means of measuring optical

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path differences through the analysis of fringe patterns formed by the interference of coherent light waves. Optical path differences of interest may be produced by mechanical displacements, variations in the

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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,...

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### 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 ...

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