

Handbook Of Holographic Interferometry Optical And

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Handbook Of Holographic Interferometry Optical

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Handbook of Holographic Interferometry: Optical and ...

About this book. 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. Emphasis of the book is on the quantitative computer-aided evaluation of the holographic interferograms.

Handbook of Holographic Interferometry | Wiley Online Books

Summary: "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 testing as well as in experimental stress analysis.

Handbook of holographic interferometry : optical and ...

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 testing.

Handbook of Holographic Interferometry: Optical and ...

Holographic interferometry (HI) is a well-known technique working under coherent light that produces the interference of two wavefronts (or more), at least one of which being holographically stored.

Handbook of Holographic Interferometry: Optical and ...

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. The text then explains the image formation, cardinal points and principal rays for holography, equipment, and procedures.

Handbook of Optical Holography - 1st Edition

10.4 HOLOGRAPHIC INTERFEROMETRY/Gera/d B. Brandt 463 References 501 10.5 PATTERN AMD CHARACTER RECOGNITION/Daw'd Casasent 503 References 536 10.6 IMAGE PROCESSING/S/ng H. Lee 537 References 559 10.7 MICROSCOPY/Mary E. Cox 561 References 572 10.8 OPTICALLY RECORDED HOLOGRAPHIC OPTICAL ELEMENTS/Dona/d H. Close 573 References 585 IX

Handbook of Optical Holography - GBV

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. Topics covered include the

Fourier transform, propagation and diffraction, pulsed-laser holography, and optical systems with spherical lenses.

Optical Holography | 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).

Holographic interferometry - Wikipedia

Description. 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. Emphasis of the book is on the quantitative computer-aided evaluation of the holographic interferograms.

Handbook of Holographic Interferometry: Optical and ...

This ten-chapter handbook deals with various important aspects of optical holography.

Handbook of optical holography - NASA/ADS

Description Optical Holography: Materials, Theory and Applications provides researchers the fundamentals of holography through diffraction optics and an overview of the most relevant materials and applications, ranging from computer holograms to holographic data storage.

Optical Holography | ScienceDirect

With holographic interferometry, polished optical surfaces are not required and diffusely reflecting objects of any shape may be studied. In holographic interferometry, a wavefront is stored in the hologram and later compared interferometrically with another wavefront.

CHAPTER 23 HOLOGRAPHY AND HOLOGRAPHIC INSTRUMENTS

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Holographic Interferometry: Principles And Methods By ...

Holography is the method of recording and reconstruction of the total optical information from the object. If so, and the wave, restored from the hologram, completely corresponds to the object at recording, hence, this wave can be investigated by the same optical methods, as the object.

Holographic interferometry - Holography - Virtual Gallery

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.

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Emphasis of the book is on the quantitative computer-aided evaluation of the holographic interferograms. Based upon wave-optics the evaluation methods, their implementation in computer-algorithms, and their applications in engineering are described.

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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 points...

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