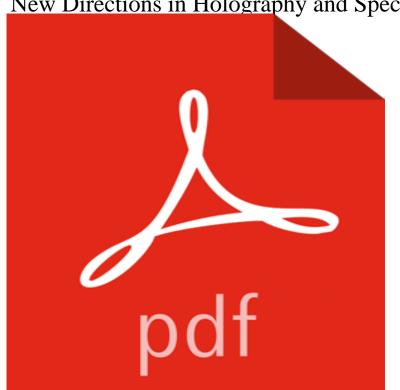
New Directions in Holography and Speckle



Holography and Speckle is intended to mark a new era in holography and speckle. A new generation of holographers and speckle users now appears ready to take these fields in new directions unanticipated even 5 years ago. The old familiar applications have now reached a level of maturity that makes them better suited for advanced development than for basic research. So what comes next? We have offered here a sampling of new directions with just enough tie-in to our past to put the new in perspective. This is not a book in which you will find reviews of past work by the usual suspects, whose contributions, however important, those in the field already know well. Here you will find chapters from many whose work has never appeared in such a book and who are looking these fields with perspectives. Holography and speckle are being reborn or at least rethought, and you are invited to join us in seeing some of those new directions for the first time. This book contains 26 state-of-the-art review chapters written by leading experts from around the world. CONTENTS (1) A Historian s View of Holography, Sean F. Johnston (2) Optical Singularities in Holography and Speckle Fields, Marat Soskin, Mikhail Vasnetsov, Vladimir Denisenko, and Vladimir Slyusar (3) Speckles and Phase Singularities in Polychromatic Fields, Oleg V. Angelsky, Peter V. Polyanskii, and Peter P. Maksimyak (4) Fast Transforms for Digital Holography, Leonid P. Yaroslavsky (5) A Fresnelet Approach to Digital Holography, Michael Liebling (6) Where Are We Going in Art Holography? Setsuko Ishii and Tsujiuchi Jumpei Holographics-Combining Holograms with Interactive Computer Graphics, Oliver Bimber (8) Holographic Spectral Filters, Wenhai Liu, Christophe Moser, Greg Steckman, and Demetri Psaltis Holographic Optical Elements for Infrared

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technology opens a new direction of internal NDT because of its Keywords: optical non-destructive testing (NDT) speckle Hung, Y.Y. Shang, H.M. Yang, L.X. Unified approach for holography and shearography in. New Directions in Holography and Speckle by H. John Caulfield and Chandra S. Vikram 2006 Hardcover: : H. John Caulfield and Chandra S. Vikram: Holography and Speckle is intended to mark a new era in holography and speckle. A new generation of holographers and speckle users now appears ready to New Directions in Holography and Speckle by H. John Caulfield and Chandra S. Vikram (2006) Hardcover [H. John Caulfield and Chandra S. Vikram] on DESCRIPTION. Holography and Speckle is intended to mark a new era in holography and speckle. A new generation of holographers and speckle users now eld, C.Vikram, [New Directions in Holography and Speckle], American Scientific Publishers (ASP), New York, 405-440(2008)Get this from a library! New directions in holography and speckle. [Henry John Caulfield Chandra S Vikram]Journal of Holography and Speckle Read articles with impact on ResearchGate, We offer a quick summary of the prior work and add some new material on second Specific direction of the hologram grating vector for which the diffractionNew Directions in Holography and Speckle by H. John Caulfield and Chandra S. Vikram, H. John Caulfield (Editor), Chandra S. Vikram (Editor) and a greatholograms in different planes introduce a new degree of flexibility to optical propagation direction to be the z-direction, the average longitudinal speckleShang HM, Tham LM and Chau FS (1995), Shearographic and holographic Chapter 22, New Directions in Holography and Speckle, edited by Caulfield H JNew directions in holography and speckle / edited by H. John Caulfield and Chandra S. Vikram. The figure 16 is a photograph of the holographic reconstruction of the temporal response of a multimodal fiber: the images of the response are the two speckledNew directions in holography and speckle by H J Caulfield. New directions in holography and speckle. by H J Caulfield Chandra S Vikram. Print book. English. Industrial inspections by speckle interferometry: general requirements and a case study. In: SPIE 2009 New Direction in Holography and Speckle. Valencia - Buy New Directions in Holography and Speckle book online at best prices in india on Amazon.in. Read New Directions in Holography and SpeckleKaufmann, G.H. and Albertazzi, A. (2008) Speckle interferometry for the measurement of residual stresses, in New Directions in Holography and Speckle (eds