

The Applications of Holography

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Holography is a very useful tool in many areas, such as in commerce, scientific research, medicine, and industry. Some current applications that use holographic Applications of holography include information storage, recording of images in depth, the use of holograms as optical elements, and as a means of performing precise interferometric measurements on three-dimensional objects of any shape and surface finish. Laser holographic techniques can be used to detect small deformations of three-dimensional objects, of the order of the wavelength of the laser The three-dimensional imaging property and great depth of field immediately suggest applications such as population studies in large tanks. Less obvious These and other uses for multiple holograms are described. Single exposure holograms have been made of objects moving non-periodically and interference This paper discusses the possibilities of recording electrooptic holograms using a TV camera and digital storage for applications to hologram interferometry. Applications of Holography. Tung H. Jeong. Lake Forest College. Lake Forest, Illinois. Holography is a much broader field than most people have perceived. Applications of Holography. Invited Paper. Abstract-Holography has strong historical ties with electrical engineering and potential application to many electrical The paper reviews the basic concepts of holography, discussing in depth of the principle of interference on which it is based, and outlines the broad applications Applications of Holography. Invited Paper. Abstract-Holography has strong historical ties with electrical engineering and potential application to many electrical Applications of Holography in Fluid Mechanics and Particle Dynamics. Annual Review of Fluid Mechanics. Vol. 42:531-555 (Volume publication date 1 January Applications of Holography in Fluid Mechanics and Particle Dynamics. Annual Review of Fluid Mechanics. Vol. 42:531-555 (Volume Roderick Tiangco has mentioned most of the applications of holography. Generally holography is considered technology of future, so in future holograms would We review the history of holography and its most practical uses. Applications of Holography and Optical Data Processing contains the proceedings of the International Conference on Applications of Holography and Optical TECHNICAL APPLICATIONS OF HOLOGRAPHY revised and adapted from an early article from Integraf (INTEGRAF, P0 Box. 586, Lake Forest, IL 60045). Basic types of holograms are described together with their properties. Applications in optical image formation include photography, microscopy, image storage and image replication. Acoustic, x-ray, electron beam and microwave holography are briefly commented upon. A principal survey of holographic techniques is presented and the following applications are considered: holographic interferometry, optical filtering, computer Holography is a much broader field than most people have perceived. Recording and displaying truly three-dimensional images are only small parts of it.

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