

Acoustical Holography

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Acoustical holography, which first appeared in the s in studies in ultrasonics, is an outgrowth of optical holography, invented by Dennis Gabor in

Nearfield acoustical holography (NAH) is a method by which a set of acoustic pressure measurements at points located on a specific surface (called a hologram). This chapter describes the fundamental concepts of acoustic holography. Holography, a technique for recording and displaying three-dimensional information. The results of some experiments in acoustical holography as a viewing system are presented here, together with an assessment of the problems which must be . This paper is concerned with acoustical engineering and mathematical physics problem for the near-field acoustical holography based on. Looking for Acoustic holography? Find out information about Acoustic holography. The recording of sound waves in a two-dimensional pattern and the use of the. Acoustical Holography, volume 5 contains the proceedings of the Fifth International Symposium on Acoustical Holography and Imaging held in July The most striking thing about acoustical holography is the variety of hologram detector schemes that have been investigated. The various detection schemes. This article describes Time Domain Acoustical Holography, its implementation in Bruel & Kjaer's Non-Stationary Spatial. Transformation of Sound Fields.

All patch, near-field acoustical holography (NAH) methods like statistically optimized NAH and the equivalent-source method are limited to relatively low. Objective: Acoustic holography is a mathematical tool for the localization of sources in a coherent sound field. Method: Using the information of the sound.

With more than 30 years' experience in Automotive, Aviation, and Industrial applications, OROS presents a precise, flexible acoustical imaging system based on. Define acoustical holography: a method of creating a three-dimensional image of an object by using sound waves. Fundamentals and Applications of Acoustical Holography. Prof. Ines Lopez Arteaga Marcus Wallenberg Laboratory for Sound and Vibration Research.

J Acoust Soc Am. Sep;(3) A one-step patch near-field acoustical holography procedure. Lee M(1), Bolton JS. Author information: (1)Ray W. An experiment is described where reconstructions were obtained from a temporal reference acoustical hologram which was recorded at MHz using a. The paper describes the basic technique of acoustical holography. Requirements for recording the acoustical hologram are discussed with its ability for. With the development of the vector hydrophone, the underwater NAH (nearfield acoustic holography) technology based on the particle velocity measurement. Near-field Acoustical Holography. During the past couple years the members of the acoustics group have been concerned in sound source(s) localization and.

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