

their superposition gave the additive moiré pattern, or the sum of the out-of-plane displacements, which served as a whole-field contour map of change of specimen thickness.

4:00 pm A Technique for Direct Readout of the Derivatives of Holographically Recorded Displacements

Y.Y. Hung, P.D. Plotkowski and J.D. Hovanesian, Oakland Univ

A method which permits the direct readout of the derivatives of holographically recorded displacements has been developed. This is accomplished by creating a holographic carrier, the pitch of which is altered according to the slope of the displacements. The readout process is based on a diffraction technique which provides variable sensitivity.

4:30 pm Remote-displacement Analysis Through Different Media Using Fiber Optics

J.A. Gilbert, Univ. of Wisconsin-Milwaukee; T.D. Dudderar, Bell Telephone Laboratories and A. Nose, Univ. of Wisconsin-Milwaukee

Optical fibers were used to record holographic interferograms in different media with and without vibration isolation. Experimental results and associated discussions demonstrate the potential for recording displacement in production-related or *in-situ* applications, many of which require testing on remote surfaces in hostile environments or in media other than air.

Proceedings of the 1982 SESA/JSME Conference on Experimental Mechanics

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