

Equal Inclination Interference of Spatial Light Modulators



Overview

A system of roughness measurements using a CCD camera and a liquid crystal spatial light modulator (LCSLM) has been developed. The scattered light patterns from the surface, which is covered by liquids wit.



Equal Inclination Interference of Spatial Light Modulators



We propose and demonstrate, both theoretically and experimentally, a direct interferometric method for calibrating liquid crystal spatial light modulators. This method uses a single ...



Figure 3 shows a schematic diagram of an equal inclination interference fringe. In equal inclination interference, different positions on the image plane have different...



Intensity of light (interference fringes of equal inclination) in transmission mode as a function of phase difference, parametrised with reflectance and fringe finesse.



With this cut, the device modulates light through the longitudinal electro-optic effect (Sect. 7.3). The plates, which are typically 0.25 to 1 mm thick, are made in the form of wedges with an angle of 1° to ...



Spatial Light Modulators (SLMs) are quasi-planar devices, allowing for the modulation of the amplitude, phase and polarization, or a combination of these parameters of an incident light beam according to ...



Therefore, the current study aims to analyze and compensate for such deformations in a phase-only SLM using a Michelson interferometer. The recorded interferogram represents the ...



We obtained a large depth of phase-only modulation and high diffraction efficiency based on the electro-optical characteristics of a parallel-aligned nematic liquid crystal.



With phase modulation, an optical path difference of up to one full-wave is produced between adjacent pixels of the Spatial Light Modulators. The output intensity remains uniform.



Here we introduce a new class of spatial light modulator that provides both 2D pixel geometry and high speed. The device operates by encoding spatial information in frequency bins via a broadband ...



As its name implies, the image on an electrically addressed spatial light modulator is created and changed electronically, as in most electronic displays. EASLMs usually receive input via a ...



Abstract - Intersymbol interference (ISI) due to modal dispersion is the dominant limitation to the bit rate-distance product in multimode fiber-optic communication systems. If the light launched into the ...



To illustrate the properties of ASD interference (Fig. 1b) and distinguish it from the traditional equal-inclination interference (Fig. 1a), we compare them in terms of the following five...

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