Spatial Light Modulators and Their Applications

The content covers various types of SLMs, including liquid crystal-based devices, micro-electromechanical systems (MEMS), and digital micromirror devices (DMDs), discussing their ...

Explore how Spatial Light Modulators revolutionize optics with high-resolution, speedy control for applications in holography, computing, and beyond. Spatial Light Modulators (SLMs) are ...

A spatial light modulator (SLM) is a pixellated liquid crystal device that can individually control the phase value of each pixel. It imposes spatially varying modulation onto an incident beam, allowing for the ...

A spatial light modulator (SLM) is a transmissive or reflective device that''s used to spatially modulate the amplitude and phase of an optical wavefront in two dimensions.

Liquid-crystal spatial light modulators control the optical path of light waves by modulating the refractive index. They play an important role in adaptive optics as phase-correction devices. This ...

This chapter provides comprehensive literature (review) of the LC-SLMs along with their major calibration methods. In addition, recent interesting applications of LC-SLMs have been ...

These devices have gained significant interest in the nascent field of structured light in space and time, facilitated by their ease of use and real-time light manipulation, fueling both fundamental research ...

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Reviews the spatial light modulators and their applications to optical signal processing. Different technologies currently under study are presented as well as an analysis of the main characteristics ...

Spatial light modulators (SLMs) are the most relevant technology for dynamic wavefront manipulation. They find diverse applications ranging from novel displays to optical and quantum communications.

Emerging demands for dynamic wavefront modulation in holographic displays, augmented/virtual reality, and light detection and ranging require spatial light modulators (SLMs) with ...

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