Spatial Light Modulator Simulated Grating

The Grating Light Valve (GLV ®) is a high-performance spatial light modulator comprising a linear array of thousands of micro-ribbons anchored on the surface of a silicon chip.

Herein, we report a large-field SIM technique that combines a 2D grat-ing for fringe pattern projection and an SLM for selecting fringe orientation and performing phase shifting digitally.

To generate high-order and fractional-order vortex beams, a spatial light modulator was used to simulate a forked grating. This was performed to generate and isolate the desired vortex ...

In this article, we will explain how to model and simulate a diffraction grating with spatial variation using the LSWM plugin. A single .json file can contain multiple grating simulation data. The basic principle ...

In this work, we compare different methods for implementing a triplicator, a phase grating that generates three equi-intense diffraction orders. The design with optimal efficiency features a continuous phase ...

Project Background - Four Wave Mixing (4WM) Four-Wave Mixing Setup Pump profile may change area of correlation Spatial Light Modulator (SLM) will change the spatial profile of the pump

A complete analysis of phase diffraction gratings displayed onto a spatial light modulator (SLM) at the spatial resolution limit (Nyquist limit) is provided based on parameters like the pixel size, ...

A simple MEMS implementation of such a 10: Grating Light Modulators 375 deformable grating is shown in Fig. 10.1. The fabrication starts by deposition of a sacrificial film and a structural film on a silicon ...

We study the diffraction efficiency of linear phase (blazed) diffraction gratings displayed onto spatial light modulators (SLMs) that exhibit a large maximum phase modulation range M 2p, ...

This method utilizes a 2D grating for lattice projection and a spatial light modulator (SLM) for phase shifting.

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