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Spatial Light Modulators for Applications in Coherent Communications, Adaptive Optics and Optical Maskless Lithography Apr 01 2021 Optical MEMS (micro-electro-mechanical systems) devices have been used in a variety of applications including fiber-optic communications, projection TVs and in biomedical imaging. MEMS-based spatial light modulators (SLM) provide a compact, large scale, and cost-effective solution to these and other applications. In this dissertation, we introduce the design and fabrication of SLMs for three such applications.
Spatial Light Modulators and Applications Topical Meeting Held in Palm Springs, California on March 15-17, 1993. 1993 Technical Digest Series Jul 24 2020 Contents: SLM Technologies; Ferroelectric Liquid Crystals SLMs; Smart Pixel SLMs; International Perspective on Liquid Crystal SLMs; Silicon-Addressed Hybrid SLMs; Joint Optical Computing/Photonics in Switching/Spatial Light Modulators Plenary Session; Multiple-Quantum Well SLM Technology; Asymmetric Fabry-Perot MQW Modulators; Optical Interconnects and other SLM Applications; New Materials.
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Ferroelectric Liquid Crystal Spatial Light Modulators Oct 27 2020
InP Based Buried Channel Charge-coupled Devices for Spatial Light Modulator Applications Sep 25 2020
Thin-Film Optics for Signal Processing Applications Feb 17 2020 High-resolution, high-speed, spatial light modulators that offer excellent spatial uniformity are the key devices impeding progress in the areas of optical information processing and computing. The thrust of the MIT research effort is in the area of materials, devices and systems for optical information processing. Our research is focused on 1) The growth, processing and characterization of optical crystals for spatial light modulation, 2) Spatial light modulator prototype device development and 3) Applications of spatial light modulators in symbolic optical processors. This final report describes the purchase assembly and operation of a RF sputtering system that is supporting a number of these and other DOD sponsored research programs at MIT. (RH).