

# Customization Process for Anti-tracking MEMS Optical Switches in Mining

In this work, we present a 2-D translational MEMS platform capable of highly efficient planar optical switching through integration with silicon nitride (SiN) based optical waveguides.

Fabricating optical MEMS devices involves microfabrication techniques like bulk and surface micromachining and deep X-ray lithography. The fabrication consists of functionality testing of...

In this article we report various popular actuating mechanisms and switch architectures of MEMS optical switches.

I have fo-cused on two-dimensional MEMS optical switches, and have chosen the two-dimensional 2x2 MEMS optical switch by Marxer et al. (1997, pp. 277-285) as an example for intro ...

We have used general design approaches such as pure-flexure design, electrostatic actuation and residual stress engineering in addressing these challenges. On several examples in this paper we ...

All-optical switching fabrics based on the Micro-Electro-Mechanical Systems (MEMS) technology are now widely available on the market. This paper reviews working principles and architectures of ...

There are currently two popular approaches to implement MEMS optical switches: (A) 2D MEMS switches; (B) 3D MEMS switches. These two technologies have striking differences in terms of how ...

The MEMS switch reliability is a multidisciplinary challenge, and ongoing research aims to explore new materials, design strategies, and fabrication techniques to address these failure modes and enhance ...

An alterna-tive approach to increasing the port size of optical switches is to interconnect smaller 2-D MEMS switches to form multistage interconnect network such as a Clos network.

This innovative design is based on DiCon"s industry proven MEMS mirror technology and offers the same level of performance and reliability that can be expected from any of its fiber optic switch ...

This chapter is a comprehensive review of MEMS-based optical switch architectures, actuating principles and fabrication process. The challenges that MEMS face as an enabling technology for ...

This chapter gives an overview of techniques used in MEMS-based optical fiber switches for optical communication systems. At first, the field of application is described.

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