

Research Topics 1999



Dynamic Measurements of Microsystems

Collaborating Organisations:



Swinburne Optics and Laser Laboratory.

Objectives

The objective of this study is to investigate the application of a fibre-optic based interferometer as a tool for measuring the dynamic performance of moving microsystems.

Expected Outcomes

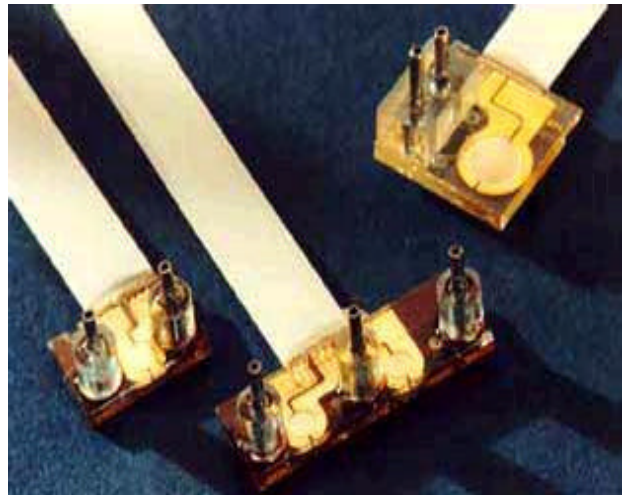
The fibre-optic interferometer requires only scattered or diffuse reflection from the target making it ideally suited to the measurement of moving microsystems. The dynamic motion of a microengineered device can be used to improve the performance of the device as well as identify possible causes of failure and wear in MEMS (Micro Electromechanical Systems).

Researcher

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Example membrane micropumps produced by Forschungszentrum Karlsruhe
<http://hikwww6.fzk.de:10000>