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MEMS based soft nervous materials ... - ieeexplore.ieee.org

Abstract: This letter presents a novel MEMS-based thermoelectric- photoelectric power generator, which integrates a micro-scale thermoelectric generator (μ -TEG) and a solar cell on a single silicon chip by MEMS technology for the first time. To optimize the heat flux path of μ -TEG, one side of the thermocouple square array is on the interdigitated electrode of the solar cell and the other ...

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Investigation of Multimodal Electret-Based MEMS Energy ...

Abstract: This paper introduces a fabrication technique that uses planar MEMS micromachining processes to produce hemispherical resonating shells for gyroscopes. The hemispheres exhibit a quality factor in excess of 20,000 with resonant frequencies in the range of 20 kHz for the 4-node wineglass mode.

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Particularly, the combination with optical components has been very successful and have led to optical MEMS. The technology of choice for us is the silicon-on-insulator (SOI) technology, which has also been successfully used by other groups.

Applications of SOI-based optical MEMS - IEEE Journals ...

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Abstract- MEMS(Micro-Electro-Mechanical Systems) technology is an emerging technology, now-a-days, which consists of both electrical and mechanical components integrated on the same chip. The main objective of this paper is to design and simulate the cantilever based

mems IEEE PAPER 2017

This paper reports an electrothermal MEMS scanning mirror working in liquid for the first time. By submerging the MEMS mirror into a mineral oil whose refractive index is 1.47, a wide-angle optical scan ($>120^\circ$) was achieved at small driving voltage ($<10V$), and the scan frequency reached up to 30 Hz. The wide angle was achieved because of

MEMS MIRRORS SUBMERGED IN LIQUID FOR WIDE-ANGLE SCANNING

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