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This book is intended for scientists and engineers in the field of micro- and nano electro-mechanical systems (MEMS and NEMS) and introduces the development of cantilever-based sensor systems using CMOS-compatible micromachining from the design concepts and simulations to the prototype.

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CMOS-based static cantilever array. Cantilever beams have been shown to deflect, when their surface properties are changed by binding events [23]. This is interpreted as a change in the surface-stress of the cantilever, related to the new composition of the surface layer. Sterical hindrance of large, densely packed molecules is one of the

A CMOS-based integrated-system architecture for a static

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The present invention discloses a CMOS-MEMS cantilever structure. The CMOS-MEMS cantilever structure includes a substrate, a circuit structure, and a cantilever beam. The substrate has a circuit...

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Abstract We have developed an atomic force microscopy (AFM) cantilever system, fabricated using a standard CMOS process and a few post-processing steps, capable of detecting the difference between hydrophilic and hydrophobic samples for the purpose of nanochemical surface analysis.

Nanochemical surface analyzer in CMOS technology ...

The cantilever-based sensor chip has been fabricated in a standard 0.8 μm double-poly, double-metal CMOS process with post-CMOS micromachining. After completion of the CMOS process, a back-side anisotropic silicon etch is performed using potassium hydroxide (KOH) and an electro-chemical etch-stop technique.

A CMOS-based integrated-system architecture for a static

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Oliver Brand received his diploma degree in Physics from Technical University Karlsruhe, Germany in 1990, and his Ph.D. degree (Doctor of Natural Sciences) from ETH Zurich, Switzerland in 1994. From 1995 to 1997, he worked as a postdoctoral fellow at Georgia Tech. From 1997 to 2002, he was a lecturer at ETH Zurich in Zurich, Switzerland and deputy director of the Physical

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plementary-metal-oxide-semiconductor-field-effect-transistor-compatible atomic force microscopy tip fabrication process and integrated atomic force microscopy cantilevers fabricated with this process," Ultramicroscopy, vol. 91, pp. 9-20, 2002.

Publications - Georgia Institute of Technology

CMOS cantilever sensor systems: atomic-force microscopy and gas sensing applications. D Lange, O Brand, H Baltes, H Baltes. Springer Science & Business Media, 2002. 84: 2002: Metal oxide-based monolithic complementary metal oxide semiconductor gas sensor microsystem.

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