SENSORS AND ACTUATORS A: PHYSICAL
An international journal devoted to research and development of physical transducers

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DESCRIPTION

Sensors and Actuators A: Physical brings together multidisciplinary interests in one journal entirely devoted to disseminating information on all aspects of research and development of solid-state devices for transducing physical signals. Sensors and Actuators A: Physical regularly publishes original papers, letters to the Editors and from time to time invited review articles within the following device areas:

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- Materials and their Processing, such as: piezoelectric materials, polymers, metal oxides, III-V and II-VI semiconductors, thick and thin films, optical glass fibres, amorphous, polycrystalline and monocrystalline silicon.

- Optoelectronic sensors, such as: photovoltaic diodes, photoconductors, photodiodes, phototransistors, positron-sensitive photodetectors, optoisolators, photodiode arrays, charge-coupled devices, light-emitting diodes, injection lasers and liquid-crystal displays.

- Mechanical sensors, such as: metallic, thin-film and semiconductor strain gauges, diffused silicon pressure sensors, silicon accelerometers, solid-state displacement transducers, piezo junction devices, piezoelectric field-effect transducers (PiFETs), tunnel-diode strain sensors, surface acoustic wave devices, silicon micromechanical switches, solid-state flow meters and electronic flow controllers.

- Thermal sensors, such as: platinum resistors, thermistors, diode temperature sensors, silicon transistor thermometers, integrated temperature transducers, PTAT circuits, thermocouples, thermopiles, pyroelectric thermometers, quartz thermometers, power transistors and thick-film thermal print heads.

- Magnetic sensors, such as: magnetoresistors, Corbino disks, magnetodiodes, Hall-effect devices, integrated Hall devices, silicon depletion-layer magnetometers, magneto-injection transistors, maghnists, lateral magnetotransistors, carrier-domain magnetometers, MOS magnetic-field sensors, solid-state read and write heads.
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Sensors and Actuators A brings together multidisciplinary interest in one journal entirely devoted to disseminating information on all aspects of research and development of solid-state devices for transducing physical signals. Sensors and Actuators A regularly publishes original papers, letters to the Editors and review articles within the following device areas:

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Micromechanics such as: research papers on actuators, structures, integrated sensors actuators, microsystems, and other devices or subdevices ranging in size from millimetres to sub-microns; micromechatronics; microelectromechanical systems; microrobots silicon and non-silicon fabrication techniques; basic studies of physical phenomena of interest to micromechanics; analysis of microsystems; exploration of new topics related to micromechanics; microsystem-related problems like power supplies and signal transmission; microsystem-related simulation tools; other topics of interest to micromechanics.

Interface electronics: electronic circuits which are designed to interface directly with the above transducers and which are used for improving or complementing the characteristics of these devices, such as linearization, A/D conversion, temperature compensation, light-intensity compensation, current/frequency conversion and microcomputer interfacing.

Sensor Systems and Applications such as: sensor buses, multiple-sensor systems, sensor networks, voting systems, telemetering, sensor arrays, and automotive, environmental, monitoring and control, consumer, medical, alarm and security, robotic, nautical, aeronautical and space measurement systems.

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- aging
- antireflection
- artifact
- band bending
- bandgap
- bandwidth
- co-evaporate
- cross section
- cross-sectional
- crosstalk
- feedback (adj.)
- flat-band (adj.)
- Gaussian
- Kirchhoff
- lifetime
- linewidth
- microelectronics
- micromechanics midpoint
- multilayer
- multi-target
- non-crystalline
- n-type (adj.)
- open-circuit (adj.)
- photoemission
- photogenerate
- photoresist
- p-type (adj.)
- printout
- readout
reverse-bias (adj.)
rod-like (adj.)
semicontinuous
short-circuit (adj.)
single-crystal (adj.)

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