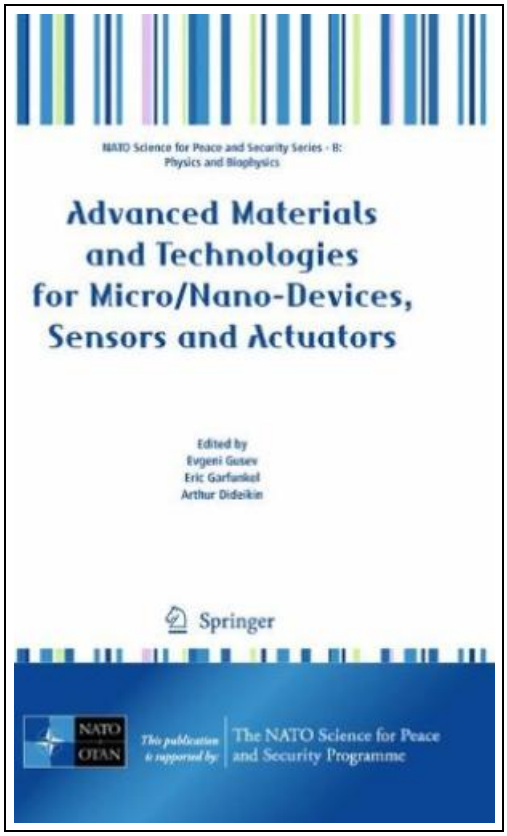
Advanced Materials and Technologies for Micro/Nano-Devices, Sensors and Actuators (Hardback)



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Reviews

Totally one of the best publication I have got ever go through. It really is packed with knowledge and wisdom I discovered this pdf from my dad and i recommended this book to discover.
(Madisyn Kuhlman)

ADVANCED MATERIALS AND TECHNOLOGIES FOR MICRO/NANO-DEVICES, SENSORS AND ACTUATORS (HARDBACK)

Springer, Netherlands, 2010. Hardback. Condition: New. 2010 ed.. Language: English . Brand New Book. A NATO Advanced Research Workshop (ARW) entitled Advanced Materials and Technologies for Micro/Nano Devices, Sensors and Actuators was held in St. Petersburg, Russia, from June 29 to July 2, 2009. The main goal of the Workshop was to examine (at a fundamental level) the very complex scientific issues that pertain to the use of micro- and nano-electromechanical systems (MEMS and NEMS), devices and technologies in next generation commercial and defen- related applications. Micro- and nano-electromechanical systems represent rather broad and diverse technological areas, such as optical systems (micromirrors, waveguides, optical sensors, integrated subsystems), life sciences and lab equipment (micropumps, membranes, lab-on-chip, membranes, microfluidics), sensors (bio-sensors, chemical sensors, gas-phase sensors, sensors integrated with electronics) and RF applications for signal transmission (variable capacitors, tunable filters and antennas, switches, resonators). From a scientific viewpoint, this is a very multi-disciplinary field, including micro- and nano-mechanics (such as stresses in structural materials), electronic effects (e. g. charge transfer), general electrostatics, materials science, surface chemistry, interface science, (nano)tribology, and optics. It is obvious that in order to overcome the problems surrounding next-generation MEMS/NEMS devices and applications it is necessary to tackle them from different angles: theoreticians need to speak with mechanical engineers, and device engineers and modelers to listen to surface physicists. It was therefore one of the main objectives of the workshop to bring together a multidisciplinary team of distinguished researchers.

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