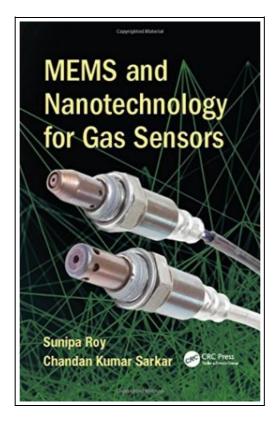
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Reviews

This type of publication is almost everything and taught me to hunting ahead plus more. It is writter in easy terms rather than difficult to understand. Your way of life period will likely be transform once you comprehensive looking at this ebook. (Gladyce Reinger)

MEMS AND NANOTECHNOLOGY FOR GAS SENSORS



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Taylor & Francis Inc. Hardback. Condition: new. BRAND NEW, Mems and Nanotechnology for Gas Sensors, Sunipa Roy, Chandan Kumar Sarkar, How Can We Lower the Power Consumption of Gas Sensors? There is a growing demand for low-power, high-density gas sensor arrays that can overcome problems relative to high power consumption. Low power consumption is a prerequisite for any type of sensor system to operate at optimum efficiency. Focused on fabrication-friendly microelectromechanical systems (MEMS) and other areas of sensor technology, MEMS and Nanotechnology for Gas Sensors explores the distinct advantages of using MEMS in low power consumption, and provides extensive coverage of the MEMS/nanotechnology platform for gas sensor applications. This book outlines the microfabrication technology needed to fabricate a gas sensor on a MEMS platform. It discusses semiconductors, graphene, nanocrystalline ZnO-based microfabricated sensors, and nanostructures for volatile organic compounds. It also includes performance parameters for the state of the art of sensors, and the applications of MEMS and nanotechnology in different areas relevant to the sensor domain. In addition, the book includes: * An introduction to MEMS for MEMS materials, and a historical background of MEMS * A concept for cleanroom technology * The substrate materials used for MEMS * Two types of deposition techniques, including chemical vapour deposition (CVD) * The properties and types of photoresists, and the photolithographic processes * Different micromachining techniques for the gas sensor platform, and bulk and surface micromachining * The design issues of a microheater for MEMS-based sensors * The synthesis technique of a nanocrystalline metal oxide layer * A detailed review about graphene; its different deposition techniques; and its important electronic, electrical, and mechanical properties with its application as a gas sensor * Low-cost, low-temperature synthesis techniques * An explanation of volatile organic compound (VOC) detection and how rel



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