



Mems and Nanotechnology for Gas Sensors

By Sunipa Roy, Chandan Kumar Sarkar

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...



READ ONLINE
[4.01 MB]

Reviews

This book may be really worth a read through, and far better than other. it was actually writtern extremely completely and valuable. I am just very easily will get a satisfaction of looking at a published ebook.

-- Lillie Toy

It is easy in read through easier to fully grasp. it had been writtern very completely and useful. I am pleased to let you know that here is the greatest book we have read during my personal life and could be he very best book for possibly.

-- Miss Marge Jerde