

Chemically Sensitive Electronic Devices: Principles and Applications



From June 9 to June 20, 1980, a NATO Advanced Study Institute was held in Hightstown, NJ, U.S.A. on chemically sensitive electronic devices. The goal of this Institute was to present a coherent picture of both the fundamental science and the recent technological developments, on the one hand, and to provide workers in different disciplines with a cross-disciplinary approach to this new subject. Not only did the lectures offer tuition in their subjects through formal lectures, summarized in these Proceedings, they and the student body also created an informal atmosphere that greatly aided in the dissemination of knowledge. The success of this Institute will be gauged as much by papers on the principles of devices for monitoring chemical species stemming from this ASI as the actual devices which reach the market-place.

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- Chemically sensitive field effect transistors Fundamentals and Applications Florinel-Gabriel Banica The basic principles of semiconductor electronic devices have been The first strategy relies on a FED structure integrated with a distinct chemically sensitive element, as it occurs in **Carbon dioxide sensor - Wikipedia** A photoresistor is a light-controlled variable resistor. The resistance of a photoresistor decreases with increasing incident light intensity in other words, it exhibits photoconductivity. A photoresistor can be applied in light-sensitive detector circuits, and light-Photoresistors are less light-sensitive devices than photodiodes or **Next Chapter - ACS Publications - American Chemical Society** New materials, devices, nano materials for optical chemical sensing, devices and instrumentation with application Mass sensitive devices, multi-component analysis, electronic noses, application of chemical sensor systems. chemical gas sensors, innovative gas sensor solutions, sensing principles and mechanisms. **Sensors and Actuators B: Chemical Editorial Board - Elsevier** Chemically Sensitive Electronic Devices: Principles and Applications. By: Edited by J. Zemel, Edited by P. Bergveld. 5 stars - 3947 reviews / Write a review. **Get Chemically Sensitive Electronic Devices : Principles and** These applications lead us to a number of attributes that practical

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