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Response of Electro-Physical Characteristics in Semiconductor Adsorbent The Methods of Quantitative Detection; 2.1. General Principles of Selection of Semiconductor Adsorbents used as a Operational Sensor Elements; 2.2. Sintered Polycrystalline Adsorbents; 2.3. Electophysical Properties of Sintered Polycrystalline Semiconductors

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4.10. Measurement of Concentration Profile of Oxygen in the Lower Thermosphere of the Earth with the Help of Semiconductor Sensors

Sommario/riassunto

The scientific basis of the technique of semiconductor chemical sensors is the main focus of this work. The book concentrates on the usage of semiconductor sensors in precision physico-chemical studies. The physical and chemical principles underlying the semiconductor sensor method are explained in detail. The mechanism of the processes occurring under the interaction of gas with semiconductor adsorbent surfaces are also discussed. Scientists and engineers specializing in the physics/chemistry of heterogeneous and heterogeneous-homogeneous processes and design of semiconductor chemical sen
