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A large area of interesting local defect studies is discussed. Less commonly used methods in the semiconductor field, such as nuclear magnetic resonance, electron nuclear double resonance, muon spin resonance and positron annihilation, are also reviewed.

### **Nuclear Methods in Semiconductor Physics, Volume 25**

introduce the methods and to show what are the problems in the field of semiconductors where the nuclear methods can be applied with interest. Mainly, we will show how the basic understanding of the semiconductor doping process by ion implantation or diffusion can be enriched with the information from these methods.

### **NUCLEAR METHODS IN THE CHARACTERIZATION OF SEMICONDUCTOR**

Semiconductor detectors based on a silicon pin diode are frequently used in the detection of different nuclear radiations.

### **Dosimetry Methods of Fast Neutron Using the Semiconductor**

A survey of applications of nuclear techniques for the characterization of the structural and electronic environment of impurity atoms in semiconductors in an atomic scale will be given. The potentialities, sensitivity and limitations of the nuclear techniques will be discussed.

### **Nuclear Methods in the Characterization of Semiconductor**

METHODS OF MEASURING NOISE IN NUCLEAR RADIATION DETECTORS O. V. Zakharchuk  
SEMICONDUCTOR UDC 621.376.234.089.6 : 539.16 Noise is an important operating parameter of semiconductor nuclear radiation detectors, which limits their

### **Methods of measuring noise in semiconductor nuclear**

these semiconductors do not have a robust, easily grown oxide. In addition, the compound semiconductor industry has significantly ... Nuclear Instruments and Methods in Physics Research B 268 (2010) 2092-2098 Contents lists available at ScienceDirect

### **Nuclear Instruments and Methods in Physics Research B**

112 A.B. ROSENFELD Keywords: Silicon detectors, neutron dosimetry, gamma dosimetry, microdosimetry and radiation therapy 1. Introduction Application of semiconductor radiation detectors in radiation medicine has been growing dramatically during the last decade.

### **SEMICONDUCTOR DETECTORS IN RADIATION MEDICINE**

Proceedings of the 9th International Conference on Radiation Effects on Semiconductor Materials Detectors and Devices October 9-12 2012 Dipartimento di Fisica e Astronomia - Sezione di Astronomia e Scienza dello Spazio - Largo Enrico Fermi, 2, 50125 Firenze Organized by : Università degli Studi di Firenze with the support of Istituto Nazionale di Fisica Nucleare

### **Nuclear Instruments and Methods in Physics Research**

TESTING METHODS AND TECHNIQUES: TESTING ELECTRICAL AND ELECTRONIC DEVICES ... and nuclear R&D programs. The methods, techniques, and devices presented in this compilation are ... The items described range from semiconductor package leak detectors to automatic circuit analyzers and antenna simulators for system checkout. In many cases, the ...

### **TESTING METHODS AND TECHNIQUES: TESTING ELECTRICAL AND**

1.5. Growth of pure semiconductor crystals Semiconductors can be grown as single crystals with high quality (dislocation densities as low as  $1000 \text{ cm}^{-3}$ ) and high purity (impurity concentrations less than 1:10<sup>12</sup>). Czochralski Method Czochralski method is for growing bulk single crystal (erillis-kide) ingots (tanko). Typical growth speed is a few mm/min.

#### **1. Basic characteristics of semiconductors - TUT**

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