

Reverse bias and PIN diode sensitivity. Building a solid state radiation detector



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Reviews

An extremely great ebook with perfect and lucid answers. This is certainly for anyone who states that there was not a well worth looking at. It has been designed in an exceptionally simple way and is particularly only soon after I finished reading through this ebook in which actually transformed me, modify the way in my opinion.

(Libbie Farrell)

REVERSE BIAS AND PIN DIODE SENSITIVITY. BUILDING A SOLID STATE RADIATION DETECTOR



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GRIN Publishing Aug 2016, 2016. sonst. Bücher. Condition: Neu. Neuware - Project Report from the year 2014 in the subject Physics - Experimental Physics, grade: Bestnote, Swiss Federal Institute of Technology Zurich (Institute for Astronomy), course: Semesterarbeit / Projektarbeit, language: English, abstract: This is a report on a research internship at the University of Oxford in the summer of 2014, which describes the final experimental steps in preparing a prototype of a solid state radiation detector based on a PIN diode. This device has multiple possible applications, e.g. it can be used to monitor cosmic radiation and space weather, which is a topic of great interest for space agencies, satellite networks, and insurance companies. The project was a success and the prototype was ready for a test flight in the end. A prototype of a solid state radiation detector based on a PIN diode has been developed to the point where it was ready for a test flight on a weather balloon. This device is intended to be used to monitor secondary cosmic radiation and may have the potential to be produced commercially since space weather is an issue of growing importance concerning the economy and technology of modern civilisation. Some of the most crucial experimental work in preparation for the test flight is discussed in this report. One important question was what reverse bias should be applied to the PIN diode. As a result, it was found that the detector's sensitivity increases with increasing reverse bias until it reaches a saturation value at -25V. Another concern was that the prototype may not be robust against temperature differences. This concern could be ruled out to a certain extent. 20 pp. Englisch.



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