

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



Filesize: 4.28 MB

Reviews

This ebook will be worth buying. It usually fails to price an excessive amount of. You wont feel monotony at whenever you want of your respective time (that's what catalogs are for regarding in the event you check with me).
(Ernest Vandervort)

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

[DOWNLOAD](#)

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.

[Read Reverse bias and PIN diode sensitivity. Building a solid state radiation detector Online](#)[Download PDF Reverse bias and PIN diode sensitivity. Building a solid state radiation detector](#)

Relevant PDFs



Hitler's Exiles: Personal Stories of the Flight from Nazi Germany to America

New Press. Hardcover. Book Condition: New. 1565843940 Never Read-12+ year old Hardcover book with dust jacket-may have light shelf or handling wear-has a price sticker or price written inside front or back cover-publishers mark-Good Copy-...

[Save eBook »](#)



Joey Green's Rainy Day Magic: 1258 Fun, Simple Projects to Do with Kids Using Brand-name Products

Fair Winds Press, 2006. Paperback. Book Condition: New. Brand new books and maps available immediately from a reputable and well rated UK bookseller - not sent from the USA; despatched promptly and reliably worldwide by...

[Save eBook »](#)



Six Steps to Inclusive Preschool Curriculum: A UDL-Based Framework for Children's School Success

Brookes Publishing Co. Paperback. Book Condition: new. BRAND NEW, Six Steps to Inclusive Preschool Curriculum: A UDL-Based Framework for Children's School Success, Eva M. Horn, Susan B. Palmer, Gretchen D. Butera, Joan A. Lieber, How...

[Save eBook »](#)



Dom's Dragon - Read it Yourself with Ladybird: Level 2

Penguin Books Ltd. Paperback. Book Condition: new. BRAND NEW, Dom's Dragon - Read it Yourself with Ladybird: Level 2, Mandy Ross, One day, Dom finds a little red egg and soon he is the owner...

[Save eBook »](#)



Unplug Your Kids: A Parent's Guide to Raising Happy, Active and Well-Adjusted Children in the Digital Age

Adams Media Corporation. Paperback. Book Condition: new. BRAND NEW, Unplug Your Kids: A Parent's Guide to Raising Happy, Active and Well-Adjusted Children in the Digital Age, David Dutwin, TV. Web Surfing. IMing. Text Messaging. Video...

[Save eBook »](#)