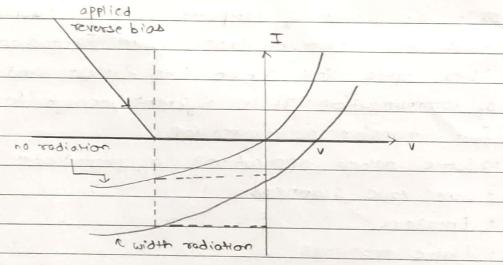
2) Explain any other technique or experiment other than the one performed which will achieve the result and fulfill the alm of the experiment.

Principle: When a photon of sufficient energy strikes the diode, it excites the electron, thereby creating a free e and hole. If the absorption occurs in the function's depletion layer, there carriers are sucht from the junction by the built in field of the depletion region.



Procedure: Photodiode is connected in reverse bias arrangement and applied voltage across photodiode is varied and corresponding overent is measured for zero illumination. Result is plotted on graph. Now light is made to fall on the photodiode and corresponding reverse I-V characteristics of photodiode are tobulated and plotted on the graph.

Instruments: Power supply, voltmeter, micro-ammeter, photodiode light source, provision to vary intensity of light source.

block box to hold photodiode and source.

Sundaram

Ans.

FOR EDUCATIONAL USE