



I recently performed this experiment in the Solid States Lab during the II semester for M.Sc Physics course at University of Delhi.

We were supposed to study the material characteristics of a pn- junction diode, like (i) Reverse Saturation Current,  $I_s$  and material constant,  $\eta n$   
 (ii) Energy Band Gap,  $E_g$   
 (iii) Depletion Layer Capacitance,  $C_d$  .

Here is the lab manual for the experiment:  
 You can download the PDF file here:

[PN-Junction Material Characteristics Experiment](#)

[PN-Junction Material Characteristics Experiment](#)



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PhD researcher at Friedrich-Schiller University Jena, Germany. I'm a physicist specializing in theoretical, computational and experimental condensed matter physics. I like to develop Physics related apps and softwares from time to time. Can code in most of the popular languages. Like to share my knowledge in Physics and applications using this Blog and a YouTube channel.

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