

Problem set

- Q. Explain with band diagram the behaviour of a F.B & a R.B Pn junc. Find the expression for
- Contact potential of an ~~step~~ abrupt Pn junc.
 - Depletion width of a p-n junction.
- Q. Explain how the depletion width varies with doping.
- Q. Find the expression for diffusion capacitance of a p-n diode.
- Q. Write short note on depletion & diffusion capacitance of a p-n diode. Explain the zener & avalanche-break-down mechanism.
- Q. How is a structure of a p-n diode different from that of a zener diode.
- Q. Write short note on varactor diode.
- Explain operation of voltage of a power supply using zener diode. Compare full wave & bridge rectifiers.
- Q. What is meant by PIV of a diode?