Diodes and Applications

Diode Physics



Figure 1: The depletion zone with fixed and mobile charges and the built-in electric field.



Figure 2: Measurement of the diode current under forward and reversed-biased conditions.



Figure 3: Measurement of the diode current under reversed-biased condition.



Figure 4: Measurement of the diode current under forward-biased condition.

Diode Applications



Figure 5: The diode as an RF detector.

Photodiodes



Figure 6: Detecting the signal from an LED with a photodiode.