## ENEE236 & 241

## **Analog Electronics**

L2 Semiconductor Diodes

Instructor: Nasser Ismail

## **Diode Operating Conditions**

A diode has three operating conditions:

No bias

**Reverse bias** 

Forward bias







































3) Let  $V_D = 0.7862529v$   $I_D = 12.137471 \text{ mA}$   $V_D = 0.7862991 \text{ V}$  The error getting smaller 4) Let  $V_D = 0.7862991 \text{ V}$   $V_D = 0.786298066 \text{ V}$   $I_D = 12.137009 \text{ mA}$  ID = 12.137 mA $V_D = 0.7863 \text{ v}$ 









































