

EC 010 304 SOLID STATE DEVICES

Teaching Scheme

3 lecturer hours and 1 tutorial hour

Credit :4

Objectives

- *To provide students with a sound understanding of existing electronic devices, so that their studies of electronic circuits and systems will be meaningful.*
- *To develop the basic tools with which students can later learn about newly developed devices and applications.*

Module I (13 hours)

Bonding forces in solids – Energy Bands – Metals, semiconductors and insulators – Direct and indirect Semiconductors – Variation of Energy Bands with alloy composition – Charge carriers in semiconductors – Electrons and holes – Effective mass – Intrinsic and extrinsic materials.

Charge concentrations – Fermi level – Electrons and hole concentrations at equilibrium – Temperature dependence of carrier concentrations – Compensation and space charge neutrality.

Drift of carriers in electric and magnetic fields – Drift and resistance – Effects of temperature on doping and mobility – High-field effects – Hall effect.

Module II (13 hours)

Excess carriers in semiconductors – Carrier lifetime – Direct and indirect recombination – Steady state carrier generation – Quasi Fermi levels.

Diffusion of carriers – Diffusion process – Diffusion coefficient – Einstein relation – Continuity equation – Steady state carrier injection – Diffusion length.

P-N junctions – Equilibrium conditions – Contact potential – Equilibrium Fermi levels – Space charge at a junction – Forward and reverse biased conditions – Steady state conditions – Qualitative description of current flow at a junction – Carrier injection – Diode equation – Majority and minority currents through a p-n junction – V-I characteristics of a p-n junction diode.

Module III (12 hours)

Reverse breakdown in p-n junctions – Zener and avalanche mechanisms – Breakdown diodes.

Time variation of stored charge in p-n junctions – Reverse recovery transient – Switching diodes – Capacitance of p-n junctions – Varactor diodes.

Metal-semiconductor junctions – Schottky barriers – Rectifying and ohmic contacts.

Optoelectronic devices – Optical Absorption – Solar Cells – Photo detectors – Photoluminescence and electroluminescence – Light emitting diodes – Laser diodes.

Module IV (12 hours)

Bipolar Junction Transistor – Bipolar Transistor action – Basic principle of operation – Simplified current relations – Modes of operation – Majority and minority current components – Emitter injection efficiency – Base transport factor – Current transfer ratio – Current amplification factor – Amplification and switching – Base width modulation – Avalanche Breakdown – Base resistance and emitter crowding

Field Effect Transistor – Basic JFET operation – pinch off and saturation – Transconductance and amplification factor – V-I characteristics – Transfer characteristics

Basic principles of high frequency transistors – Schottky transistors; Phototransistors

Taub And Schilling Solution Manual

CO Houle



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