

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Electronics and Communication Engineering - Solid State Devices

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Co-ordinating Institute - IIT - Madras

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 1 - Introduction on Solid State Devices
Lecture 2 - Evolution and Uniqueness of Semiconductor
Lecture 3 - Equilibrium Carrier Concentration
Lecture 4 - Equilibrium Carrier Concentration
Lecture 5 - Equilibrium Carrier Concentration
Lecture 6 - Equilibrium Carrier Concentration
Lecture 7 - Equilibrium Carrier Concentration
Lecture 8 - Equilibrium Carrier Concentration
Lecture 9 - Equilibrium Carrier Concentration
Lecture 10 - Equilibrium Carrier Concentration
Lecture 11 - Equilibrium Carrier Concentration
Lecture 12 - Carrier Transport
Lecture 13 - Carrier Transport (Continued.)
Lecture 14 - Carrier Transport (Continued.)
Lecture 15 - Excess Carriers
Lecture 16 - Excess Carriers (Continued.)
Lecture 17 - Procedure for Device Analysis
Lecture 18 - Procedure for Device Analysis (Continued.)
Lecture 19 - PN Junction
Lecture 20 - PN Junction (Continued.)
Lecture 21 - PN Junction (Continued.)
Lecture 22 - PN Junction (Continued.)
Lecture 23 - PN Junction (Continued.)
Lecture 24 - PN Junction (Continued.)
Lecture 25 - PN Junction (Continued.)
Lecture 26 - Bipolar Junction Transistor
Lecture 27 - Bipolar Junction Transistor (Continued.)
Lecture 28 - Bipolar Junction Transistor (Continued.)
Lecture 29 - Bipolar Junction Transistor (Continued.)

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- Lecture 30 - Bipolar Junction Transistor (Continued.)
- Lecture 31 - Bipolar Junction Transistor (Continued.)
- Lecture 32 - Bipolar Junction Transistor (Continued.)
- Lecture 33 - Metal-Oxide-Semiconductor (MOS) Junction
- Lecture 34 - Metal-Oxide-Semiconductor (MOS) Junction (Continued.)
- Lecture 35 - Metal-Oxide-Semiconductor (MOS) Junction (Continued.)
- Lecture 36 - Metal-Oxide-Semiconductor (MOS) Junction (Continued.)
- Lecture 37 - Metal-Oxide-Semiconductor (MOS) Junction (Continued.)
- Lecture 38 - MOS Field Effect Transistor
- Lecture 39 - MOS Field Effect Transistor (Continued.)
- Lecture 40 - MOS Field Effect Transistor (Continued.)
- Lecture 41 - MOS Field Effect Transistor (Continued.)
- Lecture 42 - The Final Lecture - Conclusion