

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

NPTEL Video Course - Metallurgy and Material Science - NOC:Solar Photovoltaics: Principles, Technologies and

Subject Co-ordinator - Dr. Ashish Garg

Co-ordinating Institute - IIT - Kanpur

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

Lecture 1 - Introduction to Solar Energy
Lecture 2 - Solar Radiation
Lecture 3 - Atmospheric Effects on Solar Radiation
Lecture 4 - Effect of Location on Time
Lecture 5 - Sun-Earth Angular Relations
Lecture 6 - Solar Radiation Measurements
Lecture 7 - Introduction to Band Theory
Lecture 8 - Semiconductor Basics - I
Lecture 9 - Semiconductor Basics - II
Lecture 10 - Electrical Properties of Semiconductors
Lecture 11 - Carrier Transport
Lecture 12 - Carrier Transport, Generation and Recombination
Lecture 13 - Recombination-Generation statistics
Lecture 14 - Recombination-Generation statistics (Continued...)
Lecture 15 - Recombination-Generation statistics (Continued...)
Lecture 16 - P-N Junction basics
Lecture 17 - P-N Junction Characteristics
Lecture 18 - P-N Junction
Lecture 19 - P-N Junction Analysis (Dark)
Lecture 20 - P-N Junction Analysis (Dark)
Lecture 21 - P-N Junction Analysis (Light)
Lecture 22 - P-N Junction Analysis (Light)
Lecture 23 - P-N Junction Analysis (Light)
Lecture 24 - P-N Junction Analysis (Light)
Lecture 25 - Solar Cell Device Parameters
Lecture 26 - Solar Cell Device Parameters
Lecture 27 - Solar PV Technologies
Lecture 28 - Generation-I Technologies (Mono Silicon Solar Cells)
Lecture 29 - Generation-I Technologies (Mono Silicon Solar Cells)

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- Lecture 30 - Generation-I Technologies (Poly Silicon Solar Cells)
- Lecture 31 - Manufacturing of Si
- Lecture 32 - Generation I Technologies
- Lecture 33 - Generation II Technologies
- Lecture 34 - Generation II Technologies
- Lecture 35 - Generation II Technologies
- Lecture 36 - Generation II Technologies
- Lecture 37 - Generation II Technologies
- Lecture 38 - Generation III Technologies
- Lecture 39 - Generation III Technologies
- Lecture 40 - Generation III Technologies
- Lecture 41 - Generation III Technologies