

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

NPTEL Video Course - Mining Engineering - NOC:Mining Machinery

Subject Co-ordinator - Prof. Khanindra Pathak

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Introduction to Mining Machinery - Part A
Lecture 2 - Introduction to Mining Machinery - Part B
Lecture 3 - Introduction to Machine Elements
Lecture 4 - Mechanical Transmission of Power
Lecture 5 - Shafts, Pulleys, Gears, and Geartrains Bearing and Brakes
Lecture 6 - Belt Drives, Chain Drives
Lecture 7 - Prime Movers
Lecture 8 - Fluid Power for Mining Machinery
Lecture 9 - Pneumatic Power for Mining Machinery
Lecture 10 - Steel Wire Rope : Types and Basic Calculation
Lecture 11 - Steel Wire Rope Maintenance
Lecture 12 - Principle of Rock - Tool Interaction
Lecture 13 - Site and Rock Preparation Equipment : Dozer Ripper
Lecture 14 - Site and Rock Preparation Equipment : Ripper
Lecture 15 - Drilling Machines for Mining
Lecture 16 - Site and Rock Preparation Equipment : Scraper
Lecture 17 - Site and Rock Preparation Equipment : Motor Grader
Lecture 18 - Surface Mining Machinery : Machinery for Cyclic Excavation : Electric Rope Shovel
Lecture 19 - Surface Mining Machinery : Machinery for Cyclic Excavation : Hydraulic Excavators and Back Hoe
Lecture 20 - Surface Mining Machinery : Machinery for Cyclic Excavation : Front End Loader
Lecture 21 - Surface Mining Machinery : Machinery for Cyclic Excavation : Dragline
Lecture 22 - Surface Mining Machinery : Machinery for Continuous Excavation : Bucket Wheel Excavator
Lecture 23 - Surface Mining Machinery : Machinery for Continuous Excavation : Bucket Chain Excavators
Lecture 24 - Surface Mining Machinery : Machinery for Continuous Excavation : Continuous Surface Miner
Lecture 25 - Surface Mining Machinery : Machinery for Continuous Excavation : Dredger
Lecture 26 - Underground Mining Machinery Loaders : Gathering Arm Loader
Lecture 27 - Underground Mining Machinery Loaders : Rocker Shovel and Side Discharge Loader
Lecture 28 - Underground Mining Machinery Loaders : Load Haul Dump (LHD) Loader
Lecture 29 - Underground Mining Machinery : Road Header

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- Lecture 30 - Underground Mining Machinery Underground Drills and Roof Bolter
- Lecture 31 - Underground Mining Machinery Continuous Miner
- Lecture 32 - Underground Mining Machinery Shuttle Car
- Lecture 33 - Longwall Mining Machinery Shearer
- Lecture 34 - Longwall Mining Machinery Armored Face Conveyor
- Lecture 35 - Longwall Mining Machinery Power Support
- Lecture 36 - Mine Pumps
- Lecture 37 - Mine Pumps : Special Pumps
- Lecture 38 - Basic Pumping Theory
- Lecture 39 - Air Compressor
- Lecture 40 - Fans for Mining
- Lecture 41 - Transportation Machinery for Surface Mines
- Lecture 42 - Automobiles in Mines and Mining Truck
- Lecture 43 - Off-highway Trucks
- Lecture 44 - Off-highway Trucks : Rimpull Curves and Tires
- Lecture 45 - Off-highway Trucks : Performance
- Lecture 46 - Belt Conveyor
- Lecture 47 - Belt Conveyor Design Criteria
- Lecture 48 - Power Requirements for Belt Conveyor
- Lecture 49 - Belt Conveyor Maintenance
- Lecture 50 - Aerial Rope Ways
- Lecture 51 - Machinery for Underground Mine Transport
- Lecture 52 - Endless Rope Haulage
- Lecture 53 - Rope Haulage in Underground Mines
- Lecture 54 - Locomotive
- Lecture 55 - Equipment for Shaft : Winding Machines
- Lecture 56 - Mechanics of Hoisting
- Lecture 57 - Low Profile Dumper
- Lecture 58 - Maintenance of Mining Machinery
- Lecture 59 - Maintenance Management Information System
- Lecture 60 - Non Destructive Testing