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

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NPTEL Video Course - Metallurgy and Material Science - NOC: Bulk Material Transport and Handling Systems
Subject Co-ordinator - Prof. Khanindra Pathak
Co-ordinating Institute - IIT - Kharagpur
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Classification of Mining and Bulk Sold Handling Systems
Lecture 2 - Properties of bulk material vis-a-vis different bulk handling operations
Lecture 3 - Fundamentals of BMH and Transport: Capacity and Productivity Concepts
Lecture 4 - Bulk material handling in Processing plants: Crushing and Screening Flow Charts
Lecture 5 - Introduction to Bulk Material Transport and Autonomous Vehicles
Lecture 6 - Constructional Components: Trends of Developments
Lecture 7 - Belt Conveyor Construction: Belting for Bulk Material Conveyor
Lecture 8 - Idlers and Belt Cleaners
Lecture 9 - Feeding and Discharging Devices
Lecture 10 - Safety and Troubleshooting
Lecture 11 - Size Selection and Power Calculation
Lecture 12 - Principle of operations and applicability
Lecture 13 - Basic Design Calculations
Lecture 14 - Introduction to Pneumatic Conveying systems
Lecture 15 - Design Calculations for Pneumatic Conveying
Lecture 16 - Exercise with Basic Design Calculations
Lecture 17 - Stackers and Reclaimers: Classification and Selection Criteria
Lecture 18 - Stackers and Reclaimers: Comparison of Different Types
Lecture 19 - Principles of Blending and Reclaiming
Lecture 20 - Case studies of stacker and reclaimers application
Lecture 21 - System Layout
Lecture 22 - Introduction to Bin Bunker and Silo
Lecture 23 - Introduction to Bunker
Lecture 24 - Introduction to Silo
Lecture 25 - Silo Failures and Maintenance
Lecture 26 - Basics of Silo Design
Lecture 27 - Feeder Selection and Design
Lecture 28 - Crushers: Classification and selection
Lecture 29 - Secondary Crushers
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Lecture 30 - Screen: Classification and Selection Lecture 31 - Monitoring and Maintenance of Processing Plant Equipment Lecture 32 - Concentration and Separation Lecture 33 - Fine Size Classification: Desliming and Cycloning Lecture 34 - Froth Flotation Techniques, Magnetic Separation, Jigs and Thickeners Lecture 35 - Jigs and Thickeners Lecture 36 - Coal Washery Equipment and Practices Lecture 37 - Classification and Selection Lecture 38 - Crusher Selection and Application Lecture 39 - Off-Highway trucks and Haul Roads - 1 Lecture 40 - Off-Highway trucks and Haul Roads - 2 Lecture 41 - Recent Developments in Truck Transportation Lecture 42 - RopeCon Transportation Lecture 43 - Aerial Ropeways: Introduction Lecture 44 - Aerial Ropeways Calculation Lecture 45 - Pipe Conveyor Belt: Enclosed Material Transport Lecture 46 - Underground Mine Transport System Lecture 47 - Rope Haulage for Underground Mine Transport Lecture 48 - Main and Tail and Endless Rope Haulage Lecture 49 - Pit Top and Pit Bottom Layout Lecture 50 - Haulage calculation Lecture 51 - Locomotive Lecture 52 - Low Profile Dumper Lecture 53 - Load Haul Dumper Lecture 54 - Introduction to Cage and Skip Winding Lecture 55 - Winding Calculations Lecture 56 - Safety Aspects in Bulk Solid Handling and Transportation Lecture 57 - Safety Aspects in Bulk Solid Handling and Transportation Lecture 58 - Basic Introduction of Automatic Control Lecture 59 - Automating Bulk Solids Processes Lecture 60 - Online Monitoring
