

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

NPTEL Video Course - Chemical Engineering - NOC:Chemical Process Utilities

Subject Co-ordinator - Prof. Shishir Sinha

Co-ordinating Institute - IIT - Roorkee

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

Lecture 1 - Introduction to Chemical Process Utilities
Lecture 2 - Energy Perspective to the Utilities
Lecture 3 - Power Cycle
Lecture 4 - Fuel Analysis
Lecture 5 - Practice problems related to power cycle and fuel analysis
Lecture 6 - Heat Transfer Utilities - I
Lecture 7 - Heat Transfer Utilities - II
Lecture 8 - Plate and Frame Heat Exchangers Types
Lecture 9 - Solar Energy - I
Lecture 10 - Solar Energy - II
Lecture 11 - Heat Transfer Media and Solar energy
Lecture 12 - Water
Lecture 13 - Water Chemistry
Lecture 14 - Inhibition and Water Treatment
Lecture 15 - Boiler Water treatment
Lecture 16 - Water Governance
Lecture 17 - Water Quality standards - I
Lecture 18 - Water Quality Standards - II
Lecture 19 - Steam
Lecture 20 - Boilers
Lecture 21 - Industrial Boiler Types
Lecture 22 - Boilers
Lecture 23 - Boilers- Question Practice
Lecture 24 - Steam Generation Unit
Lecture 25 - Steam Generation Unit-Heaters
Lecture 26 - Attemperator and Steam Drum
Lecture 27 - Steam Traps, Centralization, and Fuel Selection
Lecture 28 - Economizer, Super heaters, and Safety devices
Lecture 29

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- Lecture 30 - Insulation of Steam Generators
- Lecture 31 - Air
- Lecture 32 - Air Filtration and Pneumatic Conveying
- Lecture 33 - Introduction to Pneumatic Conveying System
- Lecture 34 - Conveying System Types
- Lecture 35 - Material Properties and Pipeline Feeding Devices
- Lecture 36 - Feeding devices
- Lecture 37 - Gas-solid flows
- Lecture 38 - Design of Pipelines Elements of Pipeline Design
- Lecture 39 - Natural Gas Transmission - I
- Lecture 40 - Natural Gas Transmission - II
- Lecture 41 - Natural Gas Transmission - III
- Lecture 42 - Pipeline Mechanical design - Natural Gas Transmission - IV
- Lecture 43 - Cooling Tower; Theory and Some Basic Calculations
- Lecture 44 - Concept of Heat Transfer in Cooling Tower and its Components
- Lecture 45 - Types and Components of Cooling Tower
- Lecture 46 - Components and Materials of Construction and Applications of Cooling Tower
- Lecture 47 - Control and Maintenance in cooling towers
- Lecture 48 - Pressure Levels and Terminology - I
- Lecture 49 - Pressure Levels and Terminology - II
- Lecture 50 - Gauges for Pressure Measurement
- Lecture 51 - Refrigerants and Refrigeration
- Lecture 52 - Introduction to Refrigeration
- Lecture 53 - Refrigeration System Components
- Lecture 54 - Refrigeration System Components and Refrigeration Cycle
- Lecture 55 - Refrigeration Systems
- Lecture 56 - Refractories
- Lecture 57 - Thermodynamic Principles and Corrosion in Refractories
- Lecture 58 - Slag Attack and Kinds of Refractories in Uses
- Lecture 59 - Brief history of Insulations and its fundamental principles
- Lecture 60 - Heat transfer in Insulations materials