

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

NPTEL Video Course - Chemical Engineering - NOC:Petroleum Technology

Subject Co-ordinator - Dr. Sonali Sengupta

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - What is Petroleum How it is stored under the earth Exploration of petroleum underground
- Lecture 2 - Concept of Seismic Reflection, Introduction to Drilling
- Lecture 3 - Drilling Mud and Mechanisms of Recovery of Petroleum
- Lecture 4 - Composition of Crude Petroleum and Evaluation of Oil Stocks
- Lecture 5 - Evaluation of Oil Stocks: Vaporization Characteristics
- Lecture 6 - Primary Processing of Crude Oil: Desalting
- Lecture 7 - Primary Processing of Crude Oil: Atmospheric Distillation Unit (ADU)
- Lecture 8 - Primary Processing of Crude Oil: Reflux Systems, Vacuum Distillation Unit (VDU)
- Lecture 9 - Products and Process Utilities in Primary Processing, Pipe Still Heater
- Lecture 10 - Refinery Units
- Lecture 11 - Secondary Processing: Decomposition of Residues: Thermal Cracking
- Lecture 12 - Coking, Gasification and Steam Cracking
- Lecture 13 - Secondary Processing: Decomposition of Residues: Hydrocracking
- Lecture 14 - Secondary Processing: Decomposition of Residues: Catalytic Cracking
- Lecture 15 - Secondary Processing: Decomposition of Residues: Process description of FCC
- Lecture 16 - Properties and Testing of Petroleum Products
- Lecture 17 - Properties and Testing of Petroleum Products (Continued...)
- Lecture 18 - Properties and Testing of Petroleum Products (Continued...)
- Lecture 19 - Properties and Testing of Petroleum Products (Continued...)
- Lecture 20 - Properties and Testing of Petroleum Products (Continued...)
- Lecture 21 - Petroleum fractions from distillation units
- Lecture 22 - Petroleum fractions from distillation units (Continued...)
- Lecture 23 - Petroleum fractions from distillation units (Continued...)
- Lecture 24 - Petroleum fractions from distillation units (Continued...)
- Lecture 25 - Petroleum fractions from distillation units (Continued...)
- Lecture 26 - Upgradation of straight run cuts from atmospheric distillation unit
- Lecture 27 - Upgradation of straight run cuts from atmospheric distillation unit (Continued...)
- Lecture 28 - Upgradation of straight run cuts from atmospheric distillation unit (Continued...)
- Lecture 29 - Upgradation of straight run cuts from atmospheric distillation unit (Continued...)

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- Lecture 30 - Upgradation of straight run cuts from distillation unit
- Lecture 31 - Purification processes
- Lecture 32 - Purification processes (Continued...)
- Lecture 33 - Bitumen preparation processes
- Lecture 34 - Grease: preparation, description and application
- Lecture 35 - Emission control and effluent treatment in refinery
- Lecture 36 - Fundamentals of thermochemistry: Combustion
- Lecture 37 - Fundamentals of thermochemistry: Flame
- Lecture 38 - Fundamentals of thermochemistry: Adiabatic flame temperature
- Lecture 39 - Fundamentals of thermochemistry: Burner
- Lecture 40 - Fundamentals of thermochemistry: Internal Combustion engine