

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

NPTEL Video Course - Physics - NOC:Upstream LNG Technology

Subject Co-ordinator - Prof. Pavitra Sandilya

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Introduction
- Lecture 2 - Concentration
- Lecture 3 - Sources and Process Overview of Natural Gas
- Lecture 4 - Pure Component Phase Behavior
- Lecture 5 - Mixture Phase Behavior
- Lecture 6 - Phase Behaviour of Natural Gas
- Lecture 7 - Dew Point and Bubble Point Calculations
- Lecture 8 - Vapor Liquid Equilibrium
- Lecture 9 - Problems on Vapor Pressure, Gibb's Phase Rule, Dew Point Bubble Point Temperatures
- Lecture 10 - Thermophysical Properties of Natural Gas - I
- Lecture 11 - Thermophysical Properties of Natural Gas - II
- Lecture 12 - Thermodynamic and Chemical Properties
- Lecture 13 - Combustion Properties
- Lecture 14 - Flow in Natural Gas Systems
- Lecture 15 - Flow Measurement In Natural Gas - I
- Lecture 16 - Flow Measurement In Natural Gas - II
- Lecture 17 - Temperature and Quality Measurement in Natural Gas Systems
- Lecture 18 - Pressure measurement in natural gas systems
- Lecture 19 - Tutorial on the estimation of thermophysical properties
- Lecture 20 - Tutorial on the combustion and thermodynamic properties of natural gas
- Lecture 21 - Tutorial on fluid mechanics
- Lecture 22 - Tutorial on flow and pressure measurement in natural gas systems
- Lecture 23 - Tutorial on temperature and quality measurement in natural gas
- Lecture 24 - Heat transfer in natural gas systems
- Lecture 25 - Tutorial on heat transfer in natural gas systems
- Lecture 26 - Heat exchangers in natural gas systems
- Lecture 27 - Analysis of heat exchangers in natural gas systems
- Lecture 28 - Tutorial on heat exchanger analysis
- Lecture 29 - Equilibrium vapour-liquid separation

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- Lecture 30 - Equilibrium in multicomponent systems
- Lecture 31 - Separation by distillation
- Lecture 32 - Design of distillation column
- Lecture 33 - Equilibrium fluid solid separation
- Lecture 34 - Membrane separation in natural gas systems
- Lecture 35 - Estimation of water content in natural gas
- Lecture 36 - Multistage single component equilibrium separation
- Lecture 37 - Tutorial on vapour liquid separation
- Lecture 38 - Tutorial on ideal binary distillation
- Lecture 39 - Tutorial on equilibrium gas- solid separation
- Lecture 40 - Tutorial on membrane gas separation
- Lecture 41 - Dehydration of natural gas
- Lecture 42 - Natural gas Processing - hydrate removal
- Lecture 43 - Acid gas removal in natural gas system - I
- Lecture 44 - Acid gas removal in natural gas system - II
- Lecture 45 - Nitrogen removal in natural gas system - I
- Lecture 46 - Nitrogen removal in natural gas system - II
- Lecture 47 - Compression in natural gas systems
- Lecture 48 - Compressors used in natural gas systems
- Lecture 49 - Tutorial on hydrate removal
- Lecture 50 - Multicomponent distillation column design
- Lecture 51 - Sulfur recovery in natural gas systems - I
- Lecture 52 - Tutorial on compression
- Lecture 53 - Pigging
- Lecture 54 - Sulfur recovery in natural gas systems - II
- Lecture 55 - Trace components in natural gas
- Lecture 56 - Helium recovery, upgradation and purification
- Lecture 57 - Fundamentals of absorption and stripping for natural gas processing
- Lecture 58 - Tutorial on absorption and stripping
- Lecture 59 - Gas liquid separation in natural gas systems - I
- Lecture 60 - Gas liquid separation in natural gas systems - II
- Lecture 61 - Tutorial on equilibrium in multicomponent systems
- Lecture 62 - Tutorial on multicomponent distillation - I
- Lecture 63 - Tutorial on multicomponent distillation - II
- Lecture 64 - Pumps in natural gas systems - I
- Lecture 65 - Pumps in natural gas systems - II
- Lecture 66 - Pumps in natural gas systems - III
- Lecture 67 - Tutorial on pumps - I
- Lecture 68 - Tutorial on pumps - II

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- Lecture 69 - Cryogenic refrigeration and liquefaction in natural gas systems - I
- Lecture 70 - Cryogenic refrigeration and liquefaction in natural gas systems - II
- Lecture 71 - Tutorial on refrigeration - I
- Lecture 72 - Tutorial on refrigeration - II
- Lecture 73 - Cryogenic refrigeration and liquefaction in natural gas systems - III
- Lecture 74 - Cryogenic refrigeration and liquefaction in natural gas systems - IV
- Lecture 75 - Cryogenic refrigeration and liquefaction in natural gas systems - V
- Lecture 76 - Tutorial on refrigeration - III
- Lecture 77 - Tutorial on refrigeration and liquefaction - IV
- Lecture 78 - Tutorial on refrigeration and liquefaction - V
- Lecture 79 - Hydrocarbon recovery in natural gas system - I
- Lecture 80 - Hydrocarbon recovery in natural gas system - II
- Lecture 81 - Hydrocarbon recovery in natural gas system - III
- Lecture 82 - Tutorial on hydrocarbon recovery in natural gas
- Lecture 83 - Piping in natural gas systems - I
- Lecture 84 - Piping in natural gas systems - II
- Lecture 85 - Tutorial on piping in natural gas systems - I
- Lecture 86 - Tutorial on piping in natural gas systems - II