

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

NPTEL Video Course - Chemical Engineering - NOC:Principles and Practices of Process Equipment and Plant Design

Subject Co-ordinator - Prof. Gargi Das

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Introduction
Lecture 2 - Introduction (Continued...)
Lecture 3 - Optimum design and design documentation
Lecture 4 - Introduction to Mass Transfer Processes
Lecture 5 - Phase Equilibrium
Lecture 6 - Phase Equilibrium (Continued...)
Lecture 7 - Phase Equilibrium (Continued...)
Lecture 8 - Distillation
Lecture 9 - Flash Distillation and Design problem
Lecture 10 - Fractionation
Lecture 11 - Fractionation (Continued...)
Lecture 12 - McCabe-Thiele construction for number of ideal stages
Lecture 13 - Optimum Design
Lecture 14 - Multi-component fractionation design
Lecture 15 - Batch Distillation
Lecture 16 - Practical issues in designing distillation processes
Lecture 17 - Design of absorbers
Lecture 18 - Design of absorbers (Continued...)
Lecture 19 - Design of absorbers (Continued...)
Lecture 20 - Tower and Tower internals
Lecture 21 - Tower and Tower internals (Continued...)
Lecture 22 - Tower and Tower internals (Continued...)
Lecture 23 - Sieve Tray Design
Lecture 24 - Sieve Tray Design (Continued...)
Lecture 25 - Sieve Tray Design (Continued...)
Lecture 26 - Bubble Cap Tray Design
Lecture 27 - Bubble Cap Tray Design (Continued...)
Lecture 28 - Bubble Cap Tray Design (Continued...)
Lecture 29 - Tower and Tower internals (Packed Tower Design)

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- Lecture 30 - Tower and Tower internals (Packed Tower Design) (Continued...)
- Lecture 31 - Adsorption
- Lecture 32 - Packed bed adsorption
- Lecture 33 - Packed bed adsorber design
- Lecture 34 - Packed bed adsorber design (Continued...)
- Lecture 35 - Liquid-liquid extraction (LLE)
- Lecture 36 - Liquid-liquid extraction (L2)
- Lecture 37 - Liquid-liquid extraction (L3)
- Lecture 38 - Liquid-liquid extraction (L4)
- Lecture 39 - Liquid-liquid extraction (L5)
- Lecture 40 - Design of Mass Transfer Processes (Review)
- Lecture 41 - Design of Heat Transfer Processes - Introduction
- Lecture 42 - Double Pipe Heat exchanger
- Lecture 43 - Double Pipe Heat exchanger (Continued...)
- Lecture 44 - Double Pipe Heat exchanger (Continued...)
- Lecture 45 - Design of Shell and Tube Heat Exchangers - a general overview
- Lecture 46 - Design of Shell and Tube Heat Exchangers - a general overview (Continued...)
- Lecture 47 - Shell and Tube Heat Exchanger - Design
- Lecture 48 - Shell and Tube Heat Exchanger - Design
- Lecture 49 - Heat exchanger Network Analysis
- Lecture 50 - Heat exchanger Network Analysis (Continued...)
- Lecture 51 - Heat exchanger Network Analysis (Continued...)
- Lecture 52 - Heat exchanger Network Analysis (Continued...)
- Lecture 53 - Heat exchanger Network Analysis (Continued...)
- Lecture 54 - Plant Hydraulics
- Lecture 55 - Plant Hydraulics (Continued...)
- Lecture 56 - Plant Hydraulics (Continued...)
- Lecture 57 - Plant Hydraulics (End)
- Lecture 58 - Process Vessels
- Lecture 59 - Process Instrumentation and Control
- Lecture 60 - Engineered Safety
- Lecture 61 - Process Utilities
- Lecture 62 - Process Design using Simulators
- Lecture 63 - Process Packages
- Lecture 64 - Design of a 10 TPD Mono-nitrotoluene plant