

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

NPTEL Video Course - Chemical Engineering - NOC:Aspen Plus® Simulation Software - A basic course for beginners

Subject Co-ordinator - Prof. Prabirkumar Saha

Co-ordinating Institute - IIT - Guwahati

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

- Lecture 1 - Significance of software with example - Simulation on pen and paper vs simulation on Aspen Plus
- Lecture 2 - Understanding Resources and My Exchange, Start using Aspen Plus
- Lecture 3 - Overview of setting up of property environment
- Lecture 4 - Using Model Palette - Mixers/Splitters, Separators
- Lecture 5 - Using Model Palette - Exchangers
- Lecture 6 - Using Model Palette - Columns
- Lecture 7 - Using Model Palette - Reactors
- Lecture 8 - Using Model Palette - Pressure Changers
- Lecture 9 - Example: Hydrocarbon Treatment - Part 1
- Lecture 10 - Example: Hydrocarbon Treatment - Part 2
- Lecture 11 - Setup, Components
- Lecture 12 - Property Methods
- Lecture 13 - Property Methods and Property Sets with example
- Lecture 14 - Analysis tools (Pure Components and Binary mixtures)
- Lecture 15 - Analysis tools (Ternary mixtures), Data and Regression (Part 1)
- Lecture 16 - Data and Regression (Part 2), Property Estimation
- Lecture 17 - Practice problems on pure components
- Lecture 18 - Practice problems on binary mixtures
- Lecture 19 - Miscellaneous practice problems and case studies
- Lecture 20 - Model Analysis Tools
- Lecture 21 - Separation of Hydrocarbon Mixture
- Lecture 22 - Synthesis of Acetaldehyde from Ethanol
- Lecture 23 - BTX Separation through Distillation
- Lecture 24 - Synthesis of Methanol from Syngas
- Lecture 25 - Synthesis of Dimethyl Ether from Carbon Dioxide and Hydrogen
- Lecture 26 - Synthesis of Ammonia in Cryogenic Process
- Lecture 27 - Production of Cumene
- Lecture 28 - Design, Rating and Simulation of Heat Exchanger
- Lecture 29 - Absorption and Distillation - Part 1

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- Lecture 30 - Absorption and Distillation - Part 2
- Lecture 31 - Hydrodealkylation of Toluene
- Lecture 32 - Isobutene Production Plant
- Lecture 33 - Nitric Oxide Production Plant
- Lecture 34 - Plant Economy and Utilities
- Lecture 35 - Plant Dynamics and Control