

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

NPTEL Video Course - Chemical Engineering - Multiphase Flow

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Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Introduction
- Lecture 2 - Estimation of Flow Patterns
- Lecture 3 - Estimation of Flow Patterns (Continued...)
- Lecture 4 - Flow Pattern Maps Fascinating Taylor Bubbles
- Lecture 5 - Definitions and Common Terminologies
- Lecture 6 - Definitions and Common Terminologies (Continued...)
- Lecture 7 - Simple Analytical Models
- Lecture 8 - The Homogeneous Flow Theory
- Lecture 9 - The Homogeneous Flow Theory (Continued...)
- Lecture 10 - Compressible Flow A Recapitulation
- Lecture 11 - Compressible Flow A Recapitulation (Continued...)
- Lecture 12 - Choked Flow Condition for Homogeneous Flow
- Lecture 13 - Drift Flux Model
- Lecture 14 - Drift Flux Model (Continued...)
- Lecture 15 - Drift Flux Model (Continued...)
- Lecture 16 - Drift Flux Model (Continued...)
- Lecture 17 - Separated Flow Model
- Lecture 18 - Separated Flow Model (Continued...)
- Lecture 19 - Separated Flow Model (Continued...)
- Lecture 20 - Separated Flow Model - Condition of Choking
- Lecture 21 - Separated Flow Model - Condition of Choking (Continued...)
- Lecture 22 - Separated Flow Model - Estimation of Frictional Pressure Drop and Void Fraction
- Lecture 23 - Separated Flow Model - Estimation of Frictional Pressure Drop and Void Fraction (Continued...)
- Lecture 24 - Separated Flow Model - Estimation of Frictional Pressure Drop and Void Fraction (Continued...)
- Lecture 25 - Separated Flow Model - Estimation of Frictional Pressure Drop and Void Fraction (Continued...)
- Lecture 26 - Analysis of Specific Flow Regimes
- Lecture 27 - Analysis of Specific Flow Regimes (Continued...)
- Lecture 28 - Analysis of Specific Flow Regimes - Slug Flow (Continued...)
- Lecture 29 - Two Phase Flow with Phase Change - An Introduction to Boiling Heat Transfer

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- Lecture 30 - Bubble Growth
- Lecture 31 - Different Types of Nucleation
- Lecture 32 - Ibullition from Hot Surfaces
- Lecture 33 - Cycle of Bubble Growth and Departure
- Lecture 34 - Heat Transfer in Different Regimes of Boiling
- Lecture 35 - Heat Transfer in Different Regimes of Boiling (Continued...)
- Lecture 36 - Critical Heat Flux, Film Boiling
- Lecture 37 - Measurement Techniques for Two Phase flow Parameters
- Lecture 38 - Measurement Techniques for Two Phase flow Parameters - Void Fraction Measurement
- Lecture 39 - Measurement Techniques for Two Phase flow Parameters - Void Fraction Measurement (Continued...)
- Lecture 40 - Measurement Techniques for Two Phase flow Parameters - Estimation of Flow Patterns