

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

NPTEL Video Course - Chemical Engineering - NOC:Fluidization Engineering

Subject Co-ordinator - Dr. S.K. Majumder

Co-ordinating Institute - IIT - Guwahati

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

- Lecture 1 - Introduction
- Lecture 2 - Particle properties
- Lecture 3 - Particle / Powder Classifications
- Lecture 4 - Minimum Fluidization Velocity
- Lecture 5 - Minimum Fluidization Velocity
- Lecture 6 - Flow regime and its map
- Lecture 7 - Flow regime and its map
- Lecture 8 - Frictional pressure drop in fluidized bed-fluid-solid system
- Lecture 9 - Frictional pressure drop in fluidized Bed-Gas-liquid-solid system
- Lecture 10 - Analysis of Frictional Pressure Drop in Fluidized Bed By Different Models
- Lecture 11 - Gas Distribution Through Distributor
- Lecture 12 - Calculation of gas pumping power consumption in fluidized bed
- Lecture 13 - Bubbling Fluidization Part 1
- Lecture 14 - Bubbling Fluidization Part 2
- Lecture 15 - Bubbling Fluidization Part 3
- Lecture 16 - Bubbling Fluidization Part 4
- Lecture 17 - Bubbling Fluidization Part 5
- Lecture 18 - Bubbling Fluidization Part 6
- Lecture 19 - Entrainment Characteristics (Part 1)
- Lecture 20 - Entrainment Characteristics (Part 2)
- Lecture 21 - Entrainment Characteristics (Part 2)
- Lecture 22 - Entrainment Characteristics (Part 2)
- Lecture 23 - Attrition in Fluidized Bed (Part 2)
- Lecture 24 - Solid movement, mixing
- Lecture 25 - Solid segregation
- Lecture 26 - Solid mixing and segregation
- Lecture 27 - Gas Dispersion and Interchange
- Lecture 28 - Mass transfer in fluidized Bed-Gas-solid system
- Lecture 29 - Mass transfer in fluidized Bed-Gas-liquid-solid system (Continued...)

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Lecture 30 - Heat transfer Characteristics

Lecture 31 - Fluidized bed reactor design and its performance