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

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NPTEL Video Course - Mechanical Engineering - NOC: Heat Transfer and Combustion in Multiphase Systems
Subject Co-ordinator - Prof. Saptarshi Basu
Co-ordinating Institute - IISc - Bangalore
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Introduction to Multiphase
Lecture 2 - Thermodynamics of Multiphase systems
Lecture 3 - Thermodynamics of Interface - I
Lecture 4 - Thermodynamics of Interface - II
Lecture 5 - Interfacial phenomena key concepts - I
Lecture 6 - Interfacial phenomena key concepts - II
Lecture 7 - Interfacial heat and mass transfer - I - Interfacial mass, momentum and energy balance, Surface t
Lecture 8 - Interfacial heat and mass transfer - II - Interfacial dynamics, Instabilities of the interface
Lecture 9 - Interfacial heat and mass transfer - III - Evaporation from thin films
Lecture 10 - Governing equations and interfacial conditions
Lecture 11 - Governing equations
Lecture 12 - Governing equations
Lecture 13 - Governing equations
Lecture 14 - Interface shapes
Lecture 15 - Transport processes at interface with key concepts - I
Lecture 16 - Transport processes at interface with key concepts - II
Lecture 17 - Interfacial transport
Lecture 18 - Interfacial transport including dynamic behavior
Lecture 19 - Interface behavior
Lecture 20 - Heat transfer and evaporation in droplets
Lecture 21 - Droplet vaporization models - I
Lecture 22 - Droplet vaporization models - II
Lecture 23 - Droplet vaporization dynamics - I
Lecture 24 - Droplet vaporization dynamics - II
Lecture 25 - Droplet liquid phase transport
Lecture 26 - Comprehensive droplet vaporization model and correlations - I
Lecture 27 - Comprehensive droplet vaporization model and correlations - II
Lecture 28 - Comparison of droplet vaporization models
Lecture 29 - Species transport in droplet
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Lecture 30 - Heat transfer and transport processes in sessile droplets
Lecture 31 - Introduction to atomization
Lecture 32 - Atomization principles and governing parameters
Lecture 33 - Spray / droplet breakup models  I (TAB model)
Lecture 34 - Spray / droplet breakup models  II (WAVE model)
Lecture 35 - Droplet combustion - I
Lecture 36 - Droplet combustion - II
Lecture 37 - Regimes in spray combustion
Lecture 38 - Boiling - I
Lecture 39 - Boiling - II (Bubble dynamics)
Lecture 40 - Boiling - II (Bubble dynamics and critical heat flux)
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