

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

NPTEL Video Course - Chemical Engineering - NOC:Advanced Thermodynamics

Subject Co-ordinator - Prof. Nanda Kishore

Co-ordinating Institute - IIT - Guwahati

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

Lecture 1 - Introduction of Phase Equilibrium
Lecture 2 - Classical Thermodynamics of Phase Equilibria - 1
Lecture 3 - Classical Thermodynamics of Phase Equilibria - 2
Lecture 4 - Thermodynamic Properties from Volumetric Data
Lecture 5 - Fugacity from Volumetric Data - 1
Lecture 6 - Fugacity from Volumetric Data - 2
Lecture 7 - Intermolecular Forces and Non-Ideal Behaviour
Lecture 8 - Intermolecular Forces-Potential Energy Functions
Lecture 9 - Molecular Theory of Corresponding States - 1
Lecture 10 - Molecular Theory of Corresponding States - 2
Lecture 11 - Intermolecular Potential and EoS
Lecture 12 - Virial Coefficients from Potential Functions
Lecture 13 - Virial Coefficients from Corresponding States Theory
Lecture 14 - Fugacities in Gaseous Mixtures - 1
Lecture 15 - Fugacities in Gaseous Mixtures - 2
Lecture 16 - Fugacities in Gaseous Mixtures - 3
Lecture 17 - Liquid Mixtures and Excess Functions
Lecture 18 - Excess Functions and Activity Coefficients
Lecture 19 - Activity Coefficients and Thermodynamic Consistency
Lecture 20 - Models for Excess Gibbs Energy - 1
Lecture 21 - Models for Excess Gibbs Energy - 2
Lecture 22 - Models for Excess Gibbs Energy - 3
Lecture 23 - Vapour-Liquid Equilibrium - 1
Lecture 24 - Vapour-Liquid Equilibrium - 2
Lecture 25 - Vapour-Liquid Equilibrium - 3
Lecture 26 - Liquid-Liquid Equilibrium - 1
Lecture 27 - Liquid-Liquid Equilibrium - 2
Lecture 28 - Vapour-Liquid-Liquid Equilibrium - 1
Lecture 29 - Vapour-Liquid-Liquid Equilibrium - 2

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Lecture 30 - Solid-Liquid Equilibrium - 1
Lecture 31 - Solid-Liquid Equilibrium - 2