

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

NPTEL Video Course - Civil Engineering - NOC:Mass, Momentum and Energy Balances in Engineering Analysis

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Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Introduction
Lecture 2 - Preliminaries
Lecture 3 - Balance Equations Preliminaries - I
Lecture 4 - Tutorial 1 - Balance Equations Preliminaries - I
Lecture 5 - Balance Equations Preliminaries - II
Lecture 6 - Tutorial 2 - Balance Equations Preliminaries - II
Lecture 7 - Macroscopic Balances - I
Lecture 8 - Macroscopic Balances - II
Lecture 9 - Macroscopic Balances - III
Lecture 10 - Tutorial 3 - Macroscopic Balances
Lecture 11 - Tutorial 4 - Macroscopic Balances
Lecture 12 - Tutorial 5 - Systems with chemical reactions
Lecture 13 - Tutorial 6 - Material balance involving chemical reactions
Lecture 14 - Tutorial 7 - Energy interactions in reacting systems Energy interactions in reacting systems
Lecture 15 - Tutorial 8 - Energy interactions in reacting systems
Lecture 16 - Solution of Macroscopic Balance Equations - I
Lecture 17 - Solution of Macroscopic Balance Equations - II
Lecture 18 - Tutorial 9 - Solution of Macroscopic Balance Equations - I
Lecture 19 - Tutorial 10 - Solution of Macroscopic Balance Equations - II
Lecture 20 - Mathematical Solution of Macroscopic Balance Equations
Lecture 21 - Mathematical Solution of Macroscopic Balance Equations
Lecture 22 - Numerical Solution of Macroscopic Balance Equations
Lecture 23 - Numerical evaluation of integrations in macroscopic balance equations
Lecture 24 - Microscopic Balances - I
Lecture 25 - Microscopic Balances - II
Lecture 26 - Microscopic Balances - III
Lecture 27 - Microscopic Balances - IV
Lecture 28 - Microscopic Balances - V
Lecture 29 - Microscopic Balances - VI

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- Lecture 30 - Microscopic Balances - VII
- Lecture 31 - Microscopic Balance Illustrations - I
- Lecture 32 - Microscopic Balance Illustrations - II
- Lecture 33 - Microscopic Balance Illustrations - III
- Lecture 34 - Microscopic Balance Illustrations - IV
- Lecture 35 - Microscopic Balance Illustrations - V
- Lecture 36 - Matrix Techniques - I
- Lecture 37 - Matrix Techniques - II
- Lecture 38 - Regression
- Lecture 39 - Interpolation
- Lecture 40 - Illustration of Interpolation
- Lecture 41 - Illustration of Regression
- Lecture 42 - Tutorial on macroscopic energy balance
- Lecture 43 - Selective Mathematical Concepts in Transport Phenomena