

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

NPTEL Video Course - Metallurgy and Material Science - Fuels Refractory and Furnaces

Subject Co-ordinator - Prof. Satish Ch. Koria

Co-ordinating Institute - IIT - Kanpur

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

- Lecture 1 - Energy Resources and Environment
- Lecture 2 - Characterization of Fuels
- Lecture 3 - Characterization of Fuels
- Lecture 4 - Production of Secondary Fuels
- Lecture 5 - Materials Balance in Coke-making
- Lecture 6 - Heat Balance and Clean Development Mechanism
- Lecture 7 - Production of Secondary Fuels
- Lecture 8 - Materials and Heat Balance in Gasification
- Lecture 9 - Principles of combustion
- Lecture 10 - Principles of combustion
- Lecture 11 - Materials balance in combustion
- Lecture 12 - Principles of Combustion
- Lecture 13 - Flame Temperature Calculations
- Lecture 14 - Refractory in Furnaces
- Lecture 15 - Refractory in Furnaces
- Lecture 16 - Furnace
- Lecture 17 - Heat Utilization in furnaces, energy flow diagrams
- Lecture 18 - Heat Utilization in furnaces, energy flow diagrams
- Lecture 19 - Heat Utilization in Furnaces
- Lecture 20 - Heat Utilization in Furnaces
- Lecture 21 - Transport Phenomena in Furnaces
- Lecture 22 - Macroscopic Energy Balance
- Lecture 23 - Macroscopic Energy Balance
- Lecture 24 - Macroscopic Energy Balance
- Lecture 25 - Macroscopic Energy Balance
- Lecture 26 - Macroscopic Energy Balance
- Lecture 27 - Principles of Burner Design
- Lecture 28 - Transport Phenomena in Furnaces
- Lecture 29 - Transport Phenomena in Furnaces

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- Lecture 30 - Transport Phenomena in Furnaces
- Lecture 31 - Transport Phenomena in Furnaces
- Lecture 32 - Steady Heat flows in Furnace and Heat Exchanger
- Lecture 33 - Exercises on Heat Flow in Furnaces and Heat Exchangers
- Lecture 34 - Exercises on Heat Flow in Furnaces and Heat Exchangers
- Lecture 35 - Miscellaneous Topics
- Lecture 36 - Miscellaneous Topics
- Lecture 37 - Miscellaneous Topics
- Lecture 38 - Miscellaneous topics
- Lecture 39 - Furnace efficiency, Fuel Saving, Carbon Offset
- Lecture 40 - Furnace efficiency, Fuel Saving, Carbon Offset