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

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NPTEL Video Course - Chemical Engineering - NOC: Renewable Energy Engineering: Solar, Wind and Biomass Energy
Subject Co-ordinator - Prof. R. Anandalakshmi, Prof. Vaibhav Vasant Goud
Co-ordinating Institute - IIT - Guwahati
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Solar Energy: An overview of thermal applications
Lecture 2 - Solar radiation
Lecture 3 - Practice problems - Part I
Lecture 4 - Practice problems - Part II
Lecture 5 - Non-concentrating solar collectors - Part I
Lecture 6 - Non-concentrating solar collectors - Part II
Lecture 7 - Non-concentrating solar collectors - Part III
Lecture 8 - Practice problems - Part I
Lecture 9 - Practice problems - Part II
Lecture 10 - Practice problems - Part III
Lecture 11 - Parabolic solar collectors
Lecture 12 - Practice problems
Lecture 13 - Thermal energy storage systems - Part I
Lecture 14 - Thermal energy storage systems - Part II
Lecture 15 - Solar energy utilization methods
Lecture 16 - Classification of energy resources
Lecture 17 - Broad classification and compositional analysis
Lecture 18 - Characteristics and properties of biomass
Lecture 19 - Properties and structural components of biomass
Lecture 20 - Biomass residues and energy conversion routes
Lecture 21 - Utilisation of biomass through bio-chemical and thermo-chemical routes
Lecture 22 - Conversion mechanism of biomass to biogas and its properties
Lecture 23 - Classification of biogas plants
Lecture 24 - Practice problems - I
Lecture 25 - Practice problems - II
Lecture 26 - Practice problems - III
Lecture 27 - Bioconversion of substrates into alcohol
Lecture 28 - Thermo-chemical conversion, torrefaction and combustion processes
Lecture 29 - Thermo-chemical conversion of biomass to solid, liquid and gaseous fuels
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Lecture 30 - Gasification process

Lecture 31 - Thermo-chemical conversion processes: pyrolysis, liquefaction and conversion processes

Lecture 32 - Practice problems - I

Lecture 33 - Practice problems - II

Lecture 34 - Turbine terms, types and theories - Part I

Lecture 35 - Turbine terms, types and theories - Part II

Lecture 36 - Characteristics and Power Generation from Wind Energy - Part I

Lecture 37 - Characteristics and Power Generation from Wind Energy - Part II

Lecture 38 - Practice problems
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