

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

NPTEL Video Course - Ocean Engineering - NOC:Marine Engineering

Subject Co-ordinator - Prof. Abdus Samad

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Course Overview
Lecture 2 - Basics of Thermodynamics
Lecture 3 - Work and Heat transfer
Lecture 4 - Second law of thermodynamics
Lecture 5 - Reversible Heat Engine
Lecture 6 - Basic mode of heat transfer
Lecture 7 - Conduction
Lecture 8 - Convection
Lecture 9 - Radiation
Lecture 10 - Concept of Resistance
Lecture 11 - Heat flow through pipes and walls
Lecture 12 - Heat Exchangers
Lecture 13 - Fins
Lecture 14 - LMTD
Lecture 15 - Pumps and its types
Lecture 16 - Centrifugal pump
Lecture 17 - Characteristic curves of pumps
Lecture 18 - Cavitation
Lecture 19 - Positive displacement pump
Lecture 20 - Pumps in series/parallel
Lecture 21 - Compressors
Lecture 22 - Intercooler
Lecture 23 - Rankine cycle
Lecture 24 - Injectors and Pumps
Lecture 25 - Numerical problem
Lecture 26 - Boilers
Lecture 27 - Fouling and Scaling
Lecture 28 - Fuel and method of firing
Lecture 29 - Boiler efficiency

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- Lecture 30 - Turbine Basics
- Lecture 31 - Turbine aerodynamics
- Lecture 32 - Cascade view and Meridional view
- Lecture 33 - Impulse and Reaction Turbine
- Lecture 34 - Steam Turbine
- Lecture 35 - Regenerative thermal power plant
- Lecture 36 - Mollier diagram
- Lecture 37 - IC Engines
- Lecture 38 - Otto/Diesel Cycle
- Lecture 39 - Components of IC engines - Part 1
- Lecture 40 - Components of IC engines - Part 2
- Lecture 41 - Fuel Injection/Scavenging
- Lecture 42 - IC engine: Numerical problems
- Lecture 43 - IC Engine - Fuel
- Lecture 44 - Marine Fuel and Properties
- Lecture 45 - Combustion
- Lecture 46 - Fuel Oil properties
- Lecture 47 - Lubrication/Cooling
- Lecture 48 - IC engine-Numerical Problems
- Lecture 49 - Gas turbine - Basics
- Lecture 50 - Gas turbine - Basics (Continued...)
- Lecture 51 - Gas turbine, formula, calculations
- Lecture 52 - Gas turbine: Regeneration, Reheat, Intercooling
- Lecture 53 - Numerical Problems
- Lecture 54 - Binary cycle/Rankine-Brayton cycle
- Lecture 55 - Numerical problems
- Lecture 56 - HVAC- Heating, ventilation, and air conditioning
- Lecture 57 - Refrigerants
- Lecture 58 - Vapor compression Refrigeration system
- Lecture 59 - HVAC - VCRC components
- Lecture 60 - HVAC - Psychrometric
- Lecture 61 - HVAC - Numerical problems
- Lecture 62 - Fire Fighting Machinery
- Lecture 63 - Desalination
- Lecture 64 - Energy recovery device (ERD)
- Lecture 65 - Desalination/Fire fighting/Numerical problems
- Lecture 66 - Numerical problems
- Lecture 67 - Steering gear/propeller/rudder/incin
- Lecture 68 - Power transmission system, shafting, bearing, gear, lubrication, Electric propulsion

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- Lecture 69 - Stern Tube Bearings and Misalignment
- Lecture 70 - Shaft
- Lecture 71 - Shaft Design
- Lecture 72 - Gears
- Lecture 73 - Seals and Bearings
- Lecture 74 - Oil water separation, electrical systems
- Lecture 75 - Bilge water flocculant
- Lecture 76 - Gravity OWS
- Lecture 77 - Centrifuge
- Lecture 78 - Membrane Technologies
- Lecture 79 - Electrical systems
- Lecture 80 - Motor