

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

NPTEL Video Course - Mechanical Engineering - NOC:Refrigeration and Air-Conditioning

Subject Co-ordinator - Prof. Ravi Kumar

Co-ordinating Institute - IIT - Roorkee

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

Lecture 1 - Recapitulation of Thermodynamics
Lecture 2 - Introduction to Refrigeration
Lecture 3 - Air Refrigeration Cycle
Lecture 4 - Aircraft Refrigeration Cycles - 1
Lecture 5 - Aircraft Refrigeration Cycles - 2
Lecture 6 - Aircraft Refrigeration Cycles - 3
Lecture 7 - Vapour Compression Cycle - 1
Lecture 8 - Vapour Compression Cycle - 2
Lecture 9 - P-h Charts
Lecture 10 - Actual Vapour Compression Cycle - 1
Lecture 11 - Actual Vapour Compression Cycle - 2
Lecture 12 - Compound Compression with Intercooling - 1
Lecture 13 - Compound Compression with Intercooling - 2
Lecture 14 - Multiple Evaporator and Cascade System
Lecture 15 - Problem Solving - 1
Lecture 16 - Refrigerants - 1
Lecture 17 - Refrigerants - 2
Lecture 18 - Vpouir Absorption Systems - 1
Lecture 19 - Vpouir Absorption Systems - 2
Lecture 20 - Vpouir Absorption Systems - 3
Lecture 21 - Introduction to Air-conditioning
Lecture 22 - Properties of Moist Air
Lecture 23 - Psychrometric Chart
Lecture 24 - Psychrometric Processes - 1
Lecture 25 - Psychrometric Processes - 2
Lecture 26 - Psychrometric Processes - 3
Lecture 27 - Infiltration
Lecture 28 - Design Conditions
Lecture 29 - Cooling Load - 1

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- Lecture 30 - Cooling Load - 2
- Lecture 31 - Cooling Load - 3
- Lecture 32 - Air Distribution System - 1
- Lecture 33 - Air Distribution System - 2
- Lecture 34 - Problem Solving - 2
- Lecture 35 - Air-Conditioning Systems
- Lecture 36 - Human Physiology
- Lecture 37 - Thermal Comfort
- Lecture 38 - Indoor Environmental Health - 1
- Lecture 39 - Indoor Environmental Health - 2
- Lecture 40 - Problem Solving - 3