Mindluster Platform

About the course Applied Thermodynamic Systems

Applied Thermodynamic course in hindi, In this course we explore the principles and practical applications of thermodynamics in various engineering and scientific contexts.

Engineering Category's Courses

Course Lesson(45)

Lesson 1 : **Applied Thermodynamics Intro Video**

Lesson 2 : **Lec 1 Thermodynamic Systems and Pure Substance**

Lesson 3 : **Lec 2 Heat and Work Transfer First Law of Thermodynamics**

Lesson 4 : **Lec 3 Second Law of Thermodynamics**

Lesson 5 : **Lec 4 Entropy and Exergy**

Lesson 6 : **Lec 5 Introduction to Steam Power Plant**

Lesson 7 : **Lec 6 Thermodynamics aspects of Steam Power Plant Efficiency and Work ratio**

Lesson 8 : **Lec 7 Rankine Cycle and its analysis**

Lesson 9 : **Lec 8 Improvement in Rankine Cycle Efficiency Superheating and Reheating**

Lesson 10 : **Lec 9 Improvement in Rankine Cycle Efficiency Reheating and Regenerative Methods**

Lesson 11 : **Lec 10 Improvement in Rankine Cycle Efficiency Regenerative Methods**

Lesson 12 : **Lec 11 Regenerative Cycles**

Lesson 13 : **Lec 12 Impulse Steam Turbine Velocity Diagrams Work Transfer Blade Efficiency**

Lesson 14 : **Lec 13 Impulse Steam Turbine Velocity Diagrams Work Transfer Blade Efficiency Contd**

Lesson 15 : **Lec 14 Reaction Steam Turbine**

Lesson 16 : **Lec 15 Reaction Steam Turbine Velocity Diagram Work transfer Blade Efficiency**

Lesson 17 : **Lec 16 Steam Nozzle Analysis and Efficiency**

Lesson 18 : **Lec 17 Steam Nozzle Analysis and Efficiency Contd**

Lesson 19 : **Lec 18 Boilers and Condensers**

Lesson 20 : **Lec 19 Condensers Second Law Analysis of Steam Power cycle**

Lesson 21 : **Lec 20 Exergy Analysis of a Steam Turbine**

Lesson 22 : **Lec 21 Numerical Problems Steam Power Cycle**

Lesson 23 : **Lec 22 IC engine Components Nomenclature and Classifications**

Lesson 24 : **Lec 23 Basic Engine Cycle and Engine Kinematic Analysis**

Lesson 25 : **Lec 24 Engine Operating Characteristics**

Lesson 26 : **Lec 25 Thermodynamics Analysis of Air Standard Cycles**

Lesson 27 : **Lec 26 Valve Timing Diagram and Fuel Air Cycle**

Lesson 28 : **Lec 27 Thermochemistry and Fuel Characteristics**

Lesson 29 : **Lec 28 Combustion Phenomena in Engines**

Lesson 30 : **Lec 29 Heat Transfer Analysis in Engines**

Lesson 31 : **Lec 30 Exergy Analysis and Engine Emission Pollution**

Lesson 32 : **Lec 31 Gas Turbine Engine Components and Thermal Circuit**

Lesson 33 : **Lec 32 Gas Turbine Performance Cycle I**

Lesson 34 : **Lec 33 Gas Turbine Performance Cycle II**

Lesson 35 : **Lec 34 Real Gas Turbine Performance Cycle**

Lesson 36 : **Lec 35 Aircraft Propulsion Cycle I**

Lesson 37 : **Lec 36 Aircraft Propulsion Cycle II**

Lesson 38 : **Lec 37 Vapour Compression Refrigeration System I**

Lesson 39 : **Lec 38 Vapour Compression Refrigeration System II**

Lesson 40 : **Lec 39 Absorption Refrigeration and Refrigerants**

Lesson 41 : **Lec 40 Fundamentals of Psychrometrics**

Lesson 42 : **Lec 41 Air Conditioning Processes**

Lesson 43 : **Lec 42 Cooling Tower and Air Washers**

Lesson 44 : **Lec 43 Reciprocating Compressor Analysis and Modelling**

Lesson 45 : **Lec 44 Multistage Compression Analysis and Modelling**

Related courses

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