Mindluster Platform

About the course thermodynamic system basics For Engineers

thermodynamic system basics course in hindi, in this course Explore the fundamental principles and properties of thermodynamic systems, including their types and behavior in various contexts.

Engineering Category's Courses

Course Lesson(37)

Lesson 1 : **Applied Thermodynamics For Engineers Introduction Video**

Lesson 2 : **Lec 1 Overview of thermodynamic system state**

Lesson 3 : **Lec 2 First second laws of thermodynamics**

Lesson 4 : **Lec 3 Concept of entropy entropy generation**

Lesson 5 : **Lec 4 Concept of exergy exergy destruction**

Lesson 6 : **Lec 5 Thermodynamic potentials Maxwell relations**

Lesson 7 : **Lec 6 Generalized relations for entropy specific heats**

Lesson 8 : **Lec 7 Joule Thomson coefficient Clapeyron equation**

Lesson 9 : **Lec 8 Liquid vapor phase change process**

Lesson 10 : **Lec 9 Use of property tables**

Lesson 11 : **Lec 10 Equations of state Compressibility factor**

Lesson 12 : **Lec 11 Ideal cycles for reciprocating engines**

Lesson 13 : **Lec 12 Otto Diesel Dual combustion cycles**

Lesson 14 : **Lec 13 Stirling Ericsson cycles**

Lesson 15 : **Lec 14 Fuel air cycle**

Lesson 16 : **Lec 15 Numerical exercise on Fuel air cycles**

Lesson 17 : **Lec 16 Losses in actual cycle valve timing diagram**

Lesson 18 : **Lec 17 Ideal Brayton cycle**

Lesson 19 : **Lec 18 Intercooling reheating in Brayton cycle**

Lesson 20 : **Lec 19 Regeneration in Brayton cycle**

Lesson 21 : **Lec 20 Ideal Rankine cycle**

Lesson 22 : **Lec 21 mprovements modifications in Rankine cycle**

Lesson 23 : **Lec 22 Regenerative Rankine cycle**

Lesson 24 : **Lec 23 Binary vapor power cycle**

Lesson 25 : **Lec 24 Combined gas steam power plant**

Lesson 26 : **Lec 25 Different arrangments in combined cycles**

Lesson 27 : **Lec 26 Vapor compression refrigeration cycle**

Lesson 28 : **Lec 27 SSS cycles refrigerants**

Lesson 29 : **Lec 28 Modifications in VCR systems**

Lesson 30 : **Lec 29 Vapor absorption refrigeration cycle**

Lesson 31 : **Lec 30 P v T behavior of gas mixtures**

Lesson 32 : **Lec 31 Numerical examples**

Lesson 33 : **Lec 32 Properties of moist air**

Lesson 34 : **Lec 33 Psychrometric chart various psychrometric processes**

Lesson 35 : **Lec 34 Sensible heat factor bypass factor**

Lesson 36 : **Lec 35 Theoretical actual combustion process**

Lesson 37 : **Lec 36 Thermodynamic analyses of reacting systems**

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