Mindluster Platform

About the course Thermodynamic Systems Topics

Thermodynamic Systems Topics course in hindi, In this course we explore advanced concepts and specialized areas within thermodynamics, covering diverse topics in-depth.

Engineering Category's Courses

Course Lesson(35)

Lesson 1 : **Advanced Thermodynamics and Combustion Intro Video**

Lesson 2 : **Lec 1 Temperature and Zeroth Law of Thermodynamics**

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

Lesson 4 : **Lec 3 Heat Engines and Refrigerators Heat Pump â€“ Second Law of Thermodynamics**

Lesson 5 : **Lec 4 Entropy Analysis Part I**

Lesson 6 : **Lec 5 Entropy Analysis Part II**

Lesson 7 : **Lec 6 Entropy Analysis Part III**

Lesson 8 : **Lec 7 Entropy Analysis Part IV**

Lesson 9 : **Lec 8 Exergy Analysis Part I**

Lesson 10 : **Lec 9 Exergy Analysis Part II**

Lesson 11 : **Lec 10 Thermodynamic Functions and Maxwell s Equations**

Lesson 12 : **Lec 11 Property Relations for Phase Change Processes**

Lesson 13 : **Lec 12 Property Relations for Single Phase Systems**

Lesson 14 : **Lec 13 Heat Capacity Equations and its Applications**

Lesson 15 : **Lec 14 Joule â€“ Thomson Coefficient and Liquefaction of Gases**

Lesson 16 : **Lec 15 Ideal Gas and Real Gas**

Lesson 17 : **Lec 16 Gas Mixtures and Multi Component System**

Lesson 18 : **Lec 18 Mixing Analysis of Thermodynamic Systems**

Lesson 19 : **Lec 17 Ideal Gas Mixture**

Lesson 20 : **Lec 19 Thermodynamic Considerations of Combustion**

Lesson 21 : **Lec 20 Conservation of Energy for Reacting Systems**

Lesson 22 : **Lec 21 Adiabatic Flame Temperature Entropy and Gibbs Function for Reacting System**

Lesson 23 : **Lec 22 Equilibrium Products of Combustion and Effective Energy Utilization**

Lesson 24 : **Lec 23 Fundamentals of Chemical Reactions**

Lesson 25 : **Lec 24 Reaction Mechanisms Part I**

Lesson 26 : **Lec 25 Reaction Mechanisms Part II**

Lesson 27 : **Lec 26 Chemical and Thermal Analysis of Reacting Systems**

Lesson 28 : **Lec 27 Simplified Conservation Equations for Reacting Flows**

Lesson 29 : **Lec 28 Laminar Premixed Flame Part I**

Lesson 30 : **Lec 29 Laminar Premixed Flame Part II**

Lesson 31 : **Lec 30 Laminar Diffusion Flame**

Lesson 32 : **Lec 31 Droplet Evaporation and Turbulent Flame**

Lesson 33 : **Lec 32 Engine Combustion and Pollution**

Lesson 34 : **Lec 33 Tutorial 1**

Lesson 35 : **Lec 34 Tutorial 2**

Related courses

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