Mindluster Platform

About the course conduction and radiation Fundamentals

conduction and radiation course in hindi, in this course explore heat transfer mechanisms, including conduction and radiation, and their applications in engineering and physics.

Engineering Category's Courses

Course Lesson(34)

Lesson 1 : **Fundamentals of conduction and radiation Introduction Video**

Lesson 2 : **Lec 1 Relationship of Thermodynamics with Heat transfer**

Lesson 3 : **Lec 2 Modes of heat transfer**

Lesson 4 : **Lec 3 Fourier s law thermal conductivity**

Lesson 5 : **Lec 4 Generalized heat diffusion equation**

Lesson 6 : **Lec 5 Heat diffusion equation in curvilinear coordinates**

Lesson 7 : **Lec 6 Concept of thermal resistance**

Lesson 8 : **Lec 7 Use of network of resistances in wall cylinder**

Lesson 9 : **Lec 8 Critical thickness of insulation**

Lesson 10 : **Lec 9 Conduction with energy generation I**

Lesson 11 : **Lec 10 Conduction with energy generation II**

Lesson 12 : **Lec 11 General Heat Transfer Analysis**

Lesson 13 : **Lec 12 Fins with uniform cross section area I**

Lesson 14 : **Lec 13 Fins with uniform cross section area II**

Lesson 15 : **Lec 14 Fins with non uniform cross section area**

Lesson 16 : **Lec 15 Method of Separation of Variables**

Lesson 17 : **Lec 16 Graphical approach**

Lesson 18 : **Lec 17 Method of Superposition**

Lesson 19 : **Lec 18 Lumped capacitance approach I**

Lesson 20 : **Lec 19 Lumped capacitance approach II**

Lesson 21 : **Lec 20 Semi infinite Solid**

Lesson 22 : **Lec 21 Steady Heat Conduction**

Lesson 23 : **Lec 22 Unsteady Heat Conduction**

Lesson 24 : **Lec 23 Problem solving using Energy Balance Method**

Lesson 25 : **Lec 24 Introduction to radiative heat fluxes**

Lesson 26 : **Lec 25 Spectral directional definitions**

Lesson 27 : **Lec 26 Blackbody radiation**

Lesson 28 : **Lec 27 Emissivity**

Lesson 29 : **Lec 28 Irradiation of real surfaces**

Lesson 30 : **Lec 29 View factor**

Lesson 31 : **Lec 30 Blackbody radiation exchange**

Lesson 32 : **Lec 31 Radiation networks**

Lesson 33 : **Lec 32 Gas radiation**

Lesson 34 : **Lec 33 Radiative Transfer Equation**

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