

## Chapter 4 Transient Conduction

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**Chapter 4 Transient Conduction**  
Chapter 4 transient heat conduction 1. 1/21/2018 Heat Transfer 1 HEAT TRANSFER (MEng 3121) TRANSIENT HEAT CONDUCTION (One and two dimensional) Chapter 4 Debre Markos University Mechanical Engineering Department Prepared and Presented by: Tariku Negash Sustainable Energy Engineering (MSc) E-mail: thismuch2015@gmail.com Lecturer at Mechanical Engineering Department Institute of Technology, Debre ...

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4.5 Transient Conduction in Spheres Example 4.4: Sphere with Surface Convection • The heat equation for transient radial conduction in a sphere is  $r \frac{\partial}{\partial r} \left( r \frac{\partial T}{\partial r} \right) = \rho c_p \frac{\partial T}{\partial t}$  • This is a homogeneous PDE. • Only the r-variable can have two homogeneous boundary conditions.

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Transient temperature profiles in a plane wall exposed to convection from its surfaces for  $T_i > T_\infty$ . 11 Nondimensionalized One-Dimensional Transient Conduction Problem 12 Nondimensionalization reduces the number of independent variables in one-dimensional transient conduction problems from 8 to 3, offering great convenience

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Transient Heat Conduction in Large Plane Walls, Long Cylinders, and Spheres with Spatial Effects • In many transient heat transfer problems the Biot number is larger than 0.1, and lumped system ...

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In this chapter, we consider cases in which the temperature can vary with time. We have seen in Chapter 4 that when problems have more than one dimension, it can become difficult to solve the heat conduction equation. Time is a dimension, so introducing time as a variable introduces difficulties analogous to those introduced in Chapter 4.

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**Course: Heat Transfer**  
Assumptions 1 Heat conduction in the hot dog is two-dimensional, and thus the temperature varies in both the axial x- and the radial r- directions. 2 The thermal properties of the hot dog are constant. 4 The heat transfer coefficient is constant and uniform over the entire surface. 5 The Fourier number is ( $Fo > 0.2$  so that the one-term approximate solutions (or the transient temperature charts ...

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**TRANSIENT HEAT CONDUCTION T**  
Chapter 5 Transient Conduction Notes 5.2 Spatial Effects If the Biot number  $Bi \ll 0.1$  temperature gradients within the solid is not negligible any more and temperature depends on time and position. The Infinite Plane Wall with Convection Consider an infinite plane wall with constant thermal properties ,thickness  $2L$ ,and in effect

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