

Chapter 5 Transient Heat Conduction Ytical Methods

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~~Chapter 5 Transient Heat Conduction: Analytical Methods 1 Introduction Many heat conduction problems encountered in engineering applications involve time as in independent variable.~~

~~Chapter 5 Transient Heat Conduction: Analytical Methods~~

~~Chapter 5 Transient Conduction Notes 5.2 Spatial Effects If the Biot number Bi 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~~

~~Chapter 5 Transient Conduction Notes 5.2 Spatial Effects~~

~~TRANSIENT CONDUCTION • A heat transfer process for which the temperature varies with time, as well as location within a solid in some cases • The temperature profile could be (depends on the assumptions we can make): () () () () T T - f t only T T x,t - 1D only and f t T T x,y,t - 2D only and f t T T x,y,z,t - 3D and f t = = =) • It is initiated whenever a system experiences a change in operating conditions and proceeds until a new steady state (thermal equilibrium) is ...~~

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~~10/5/2013 2 Transient Conduction: The Lumped Capacitance Method Chapter Five Sections 5.1 through 5.3 Transient Conduction Transient Conduction • A heat transfer process for which the temperature varies with time , as well as location within a solid. • It is initiated whenever a system experiences a change in operating conditions .~~

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~~Transient Conduction (Chapter 5) of Undergraduate Heat Transfer Course presented by Dr. Languri.~~

~~Transient Conduction Heat Transfer, Chapter 5, Tennessee Tech University~~

~~Chapter 5 Transient Conduction 5.1 The lumped capacitance method So far, we focus on steady-state conduction 1) Boundary conditions do not change with time 2) Temperature distribution does not change with time 3) Heat transfer rate does not change with time However, there are some problems in which 1) Boundary conditions change with time 2) Temperature distribution changes with time 3) Heat transfer rate changes with time For example, consider a hot metal forging is initially at a uniform ...~~

~~Chapter 5 – Transient Conduction – Em1 4142 Heat Transfer ...~~

~~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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~~Transient heat conduction • In general, The temperature of a body varies with time as well as position. In rectangular co-ordinates this variation is expressed as T(x,y,z,t) x,y,z variations in x,y,z directions t variation with time • The studies in this chapter is focused on Lumped system analysis~~

~~Chapter 18 – Transient heat 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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~~In a transient conduction, temperature of the control volume is a function of time as well as the space. Additional consideration is needed to handle this dependency of temperature on time.~~

~~One-Dimensional Transient Conduction~~

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~~Consider a thin electrical heater attached to a plate and backed by insulation. Initially, the heater and plate are at the temperature of the ambient air, T .Suddenly, the power to the heater is activated, yielding a constant heat flux q " o (W/m 2) at the inner surface of the plate. (a) Sketch and label, on T – x coordinates, the temperature distributions: initial, steady-state, and at ...~~