

## Chapter 4 Transient Conduction

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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 
$$\frac{1}{r^2} \frac{\partial}{\partial r} \left( r^2 \frac{\partial T}{\partial r} \right) = \frac{\partial T}{\partial t}$$

(4.20) • This is a homogeneous PDE. • Only the r-variable can have two homogeneous boundary conditions.

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- Solve the transient conduction problem in large mediums using the similarity variable, and predict the variation of temperature with time and distance from the exposed surface, and
- Construct...

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The general form of two dimensional transient conduction equation in the Cartesian coordinate system is Following the procedures used to integrate one dimensional transient conduction equation, we integrate Eq.(1) over a control volume as shown in Figure 1. Integrating the second term, we have

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## 2-Dimensional Transient Conduction

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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

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4 – 4 Transient Heat Conduction in Multidimensional Systems 248 Topic of Special Interest:

Refrigeration and Freezing of Foods 256 ... CHAPTER 4 219  $T(t)$   $T$   $T$   $i$   $b$   $3$   $b$   $3$   $>$   $b$   $2$   $>$   $b$   $1$   $b$   $2$   $b$   $1$   $t$   
FIGURE ...

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