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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 t r r r ∂ ∂θ α θ ∂ 1 ∂ 2 1 2 ⎪= ⎭ ⎫ ⎪ ⎩ ⎧ ∂ ∂ (4.20) • This is a homogeneous PDE. • Only the r-variable can have two homogeneous boundary conditions.

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CHAPTER 4: TRANSIENT HEAT CONDUCTION CHAPTER OUTLINE
4. 1/21/2018Heat Transfer 4 Our objectives in this chapter is to develop procedures for determining 1. the time dependence of the temperature distribution within a solid (conduction) during a transient process, and 2. heat transfer between the solid and its surroundings (convection or radiation).

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Page 1 Chapter 4 Transient Heat Conduction 4-98 4-118 Internal combustion engine valves are quenched in a large oil bath. The time it takes for the valve temperature to drop to specified temperatures and the maximum heat transfer are to be determined.

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Chapter 4
general treatment of such cases is presented in a later chapter [4]. Figure 5 Island region with known temperatures Other 2-D Orthogonal Coordinate Systems C 20 island P S = 10T and - 20 (17) 10 Three-dimensional transient conduction equation in the cylindrical coordinate is given by where r is the radial, z, axial and , angular coordinate ...

2-Dimensional Transient Conduction
When you finish studying this chapter, you should be able to: • Assess when the spatial variation of temperature is negligible, and temperature varies nearly uniformly with time, making the simplified lumped system analysis applicable, • Obtain analytical solutions for transient one-dimensional conduction problems in rectangular ...

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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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Lumped system analysis of transient heat conduction situations is valid when the Biot number is (a) very small (b) approximately one (c) very large (d) any real number (e) cannot say unless the Fourier number is also known.

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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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