

## 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  $r \frac{\partial^2 T}{\partial r^2} + 2 \frac{\partial T}{\partial r} = \frac{1}{\alpha} \frac{\partial T}{\partial t}$  (4.20) • This is a homogeneous PDE. • Only the  $r$ -variable can have two homogeneous boundary conditions.**

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