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temperature is  $50^{\circ}\text{C}$ ,  
the fluid temperature is  
 $20^{\circ}\text{C}$  and the  
convective heat  
transfer coefficient is  
 $2000 \text{ W/m}^2\text{C}$ . The  
convective heat  
transfer between the

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hotter surface and the colder air can be calculated as  $q = (2000 \text{ W/ (m}^2\text{oC)}) ((1 \text{ m}) (1 \text{ m})) ((50 \text{ oC}) - (20 \text{ oC})) = 60000 \text{ (W)}$

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Heat transfer by convection is emphasized by the present treatment, which includes mass transfer by convection primarily by analogy. After establishing a sound theoretical base at the molecular level, giving insight into the physical origin of transport properties, equations describing convective transport

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are derived.

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be expressed as (4.1.6)

Here,  $r_1$  and  $r_2$   
represent the radii of  
annular section . A  
thermal resistance for  
this case is as sh own  
below. (4.1.7) The  
Overall Heat Transfer

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