

Thermodynamics

Problem 169

A well lagged wire of length L and cross-sectional area A has its ends maintained at temperatures T_1 and T_2 . The thermal conductivity of the wire is given by

$$K = B + CT,$$

where T is the temperature and B and C are constants. What is the rate of flow of heat along the wire?

Solution

The rate at which heat is flowing through the wire is given by the definition of thermal conductivity as

$$\frac{dQ}{dt} = -KA \frac{dT}{dx}.$$

Since the wire is well lagged, we may assume that no heat enters or leaves it except at the ends, so dQ/dt must be constant. For convenience, let us put

$$D = \frac{1}{A} \frac{dQ}{dt},$$

where D is a constant. Substituting the expression given for K , we find

$$(B + CT) \frac{dT}{dx} = -D.$$

This differential equation can be solved by rearranging and integrating:

$$\int_{T_1}^{T_2} (B + CT) dT = -D \int_0^L dx.$$

This gives

$$B(T_2 - T_1) + \frac{C}{2}(T_2^2 - T_1^2) = -DL.$$

Problems Solution For Thermodynamic

Michael Hoelscher



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