

# 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

**Annelies Wilder-Smith**



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## **Table of Contents Problems Solution For Thermodynamic**

1. Understanding the eBook Problems Solution For Thermodynamic
  - The Rise of Digital Reading Problems Solution For Thermodynamic
  - Advantages of eBooks Over Traditional Books
2. Identifying Problems Solution For Thermodynamic
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Problems Solution For Thermodynamic
  - User-Friendly Interface
4. Exploring eBook Recommendations from Problems Solution For Thermodynamic
  - Personalized Recommendations
  - Problems Solution For Thermodynamic User Reviews and Ratings
  - Problems Solution For Thermodynamic and Bestseller Lists
5. Accessing Problems Solution For Thermodynamic Free and Paid eBooks
  - Problems Solution For Thermodynamic Public Domain eBooks
  - Problems Solution For Thermodynamic eBook Subscription Services
  - Problems Solution For Thermodynamic Budget-Friendly Options
6. Navigating Problems Solution For Thermodynamic eBook Formats

- ePub, PDF, MOBI, and More
  - Problems Solution For Thermodynamic Compatibility with Devices
  - Problems Solution For Thermodynamic Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Problems Solution For Thermodynamic
    - Highlighting and Note-Taking Problems Solution For Thermodynamic
    - Interactive Elements Problems Solution For Thermodynamic
  8. Staying Engaged with Problems Solution For Thermodynamic
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Problems Solution For Thermodynamic
  9. Balancing eBooks and Physical Books Problems Solution For Thermodynamic
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Problems Solution For Thermodynamic
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Problems Solution For Thermodynamic
    - Setting Reading Goals Problems Solution For Thermodynamic
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Problems Solution For Thermodynamic
    - Fact-Checking eBook Content of Problems Solution For Thermodynamic
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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