

V.1 Heat Transfer

5.1 A hot water pipe with outside radius r_1 has a temperature T_1 . A thick insulation, applied to reduce the heat loss, has an outer radius r_2 and temperature T_2 . On T - r coordinates, sketch the temperature distribution in the insulation for one-dimensional, steady-state heat transfer with constant properties. Give a brief explanation, justifying the shape of your curve. (25 points)

5.2 A spherical shell with inner radius r_1 and outer radius r_2 has surface temperatures T_1 and T_2 , respectively, where $T_1 > T_2$. Sketch the temperature distribution on T - r coordinates assuming steady-state, one-dimensional conduction with constant properties. Briefly justify the shape of your curve. (25 points)

5.3 A composite wall separates combustion gases at 2600°C from a liquid coolant at 100°C , with gas- and liquid-side convection coefficients of 50 and $1000 \text{ W/m}^2\cdot\text{K}$. The wall is composed of a 10-mm-thick layer of beryllium oxide on the gas side and a 20-mm-thick slab of stainless steel (AISI 304) on the liquid side. The contact resistance between the oxide and the steel is $0.05 \text{ m}^2 \text{ K/W}$.

- What is the heat loss per unit surface area of the composite?
- Sketch the temperature distribution from the gas to the liquid.

(25 points)

5.4 A spherical tank of 3-m diameter contains a liquefied petroleum gas at -60°C . Insulation with a thermal conductivity of $0.06 \text{ W/m}\cdot\text{K}$ and thickness 250 mm is applied to the tank to reduce the heat gain.

(a) Determine the radial position in the insulation layer at which the temperature is 0°C when the ambient air temperature is 20°C and the convection coefficient on the outer surface is $6 \text{ W/m}^2\cdot\text{K}$.

(b) If the insulation is pervious to moisture from the atmospheric air, what conclusions can you reach about the formation of ice in the insulation?

- What effect will ice formation have on heat gain to the LP gas?
- How could this situation be avoided?

Heat Transfer Exam Solutions

Y.V. Rao



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covered include principles fundamentals equipment and materials and applications **Applied Mechanics Reviews** ,1988

Heat Transfer Applications for the Practicing Engineer Louis Theodore,2011-11-01 This book serves as a training tool for individuals in industry and academia involved with heat transfer applications Although the literature is inundated with texts emphasizing theory and theoretical derivations the goal of this book is to present the subject of heat transfer from a strictly pragmatic point of view The book is divided into four Parts Introduction Principles Equipment Design Procedures and Applications and ABET related Topics The first Part provides a series of chapters concerned with introductory topics that are required when solving most engineering problems including those in heat transfer The second Part of the book is concerned with heat transfer principles Topics that receive treatment include Steady state Heat Conduction Unsteady state Heat Conduction Forced Convection Free Convection Radiation Boiling and Condensation and Cryogenics Part three considered the heart of the book addresses heat transfer equipment design procedures and applications In addition to providing a detailed treatment of the various types of heat exchangers this part also examines the impact of entropy calculations on exchanger design and operation maintenance and inspection OM I plus refractory and insulation effects The concluding Part of the text examines ABET Accreditation Board for Engineering and Technology related topics of concern including economics and finance numerical methods open ended problems ethics environmental management and safety and accident management

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