

# Heat Transfer Practice Problems

Week 6

- Q1** A 6-mm-diameter electrical transmission line carries an electric current of 50 A and has a resistance of 0.002 ohm per meter length. Determine the surface temperature of the wire during a windy day when the air temperature is 10 °C and the wind is blowing across the transmission line at 40 km/h.

Air properties at 10 °C :  $k = 0.0248 \frac{W}{m \cdot K}$   $\nu = 1.424 \times 10^{-5} \frac{m^2}{s}$   $Pr = 0.716$   $\rho = 1.257 \text{ kg/m}^3$   
 (Assume film temperature)

$$Re = \frac{VD}{\nu} = 4681.65$$

$$Nu = \frac{hD}{k} = CRe^a Pr^b = 32.03 \quad (C = 0.1930, a = 0.618)$$

$$h = Nu \frac{k}{D} = 132.39 \frac{W}{m^2 K}$$

$$\dot{Q} = I^2 R = 5 \text{ W}$$

$$\dot{Q} = hA_s(T_s - T_{inf})$$

$$T_s = T_{inf} + \frac{\dot{Q}}{hA_s} = 12 \text{ }^\circ\text{C}$$

$$V = 40 \text{ km/h} \quad D = 6 \text{ mm}$$

$$I = 50 \text{ A} \quad R = 0.002 \text{ ohm}$$

$$T_{inf} = 10 \text{ }^\circ\text{C} \quad A_s = \pi DL = 0.01885 \text{ m}^2$$

- Q2** A 1.8-m-diameter spherical tank of negligible thickness contains iced water at 0 °C. Air at 25 °C flows over the tank with a velocity of 7 m/s. Determine the rate of heat transfer to the tank and the rate at which ice melts. The heat of fusion of water at 0 °C is 333.7 kJ/kg.

Air properties at 25 °C :  $k = 0.0259 \frac{W}{m \cdot K}$   $\nu = 1.55 \times 10^{-5} \frac{m^2}{s}$   $Pr = 0.712$   $\rho = 1.186 \text{ kg/m}^3$   
 (Free stream temperature)  $\mu = 1.84 \times 10^{-5} \text{ kg/ms}$   $\mu_w = 1.73 \times 10^{-5} \text{ kg/ms}$

$$Re = \frac{VD}{\nu} = 917002.77$$

$$V = 7 \text{ m/s} \quad D = 1.8 \text{ m}$$

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**Alastair Iain Rankine Stewart**



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**Computational Modeling of Shallow Geothermal Systems** Rafid Al-Khoury, 2011-09-30 A Step by step Guide to Developing Innovative Computational Tools for Shallow Geothermal Systems Geothermal heat is a viable source of energy and its environmental impact in terms of CO<sub>2</sub> emissions is significantly lower than conventional fossil fuels Shallow geothermal systems are increasingly utilized for heating and cooling of buildings and greenhouses However their utilization is inconsistent with the enormous amount of energy available underneath the surface of the earth Projects of this nature are not getting the public support they deserve because of the uncertainties associated with them and this can primarily be attributed to the lack of appropriate computational tools necessary to carry out effective designs and analyses For this energy field to have a better competitive position in the renewable energy market it is vital that engineers acquire computational tools which are accurate versatile and efficient This book aims at attaining such tools This book addresses computational modeling of shallow geothermal systems in considerable detail and provides researchers and developers in computational mechanics geosciences geology and geothermal engineering with the means to develop computational tools capable of modeling the complicated nature of heat flow in shallow geothermal systems in rather straightforward methodologies Coupled conduction convection models for heat flow in borehole heat exchangers and the surrounding soil mass are formulated and solved using analytical semi analytical and numerical methods Background theories enhanced by

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*Handbook of Superconductivity* David A. Cardwell, David C. Larbalestier, Aleksander Braginski, 2022-07-05 This is the last of three volumes of the extensively revised and updated second edition of the Handbook of Superconductivity The past twenty years have seen rapid progress in superconducting materials which exhibit one of the most remarkable physical states of matter ever to be discovered Superconductivity brings quantum mechanics to the scale of the everyday world Viable applications of superconductors rely fundamentally on an understanding of these intriguing phenomena and the availability of a range of materials with bespoke properties to meet practical needs While the first volume covers fundamentals and various classes of materials the second addresses processing of these into various shapes and configurations needed for applications and ends with chapters on refrigeration methods necessary to attain the superconducting state and the desired performance This third volume starts with a wide range of methods permitting one to characterize both the materials and various end products of processing Subsequently diverse classes of both large scale and electronic applications are described Volume 3 ends with a glossary relevant to all three volumes

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