

$$-k \frac{d}{dr} \left(r^2 \frac{dT}{dr} \right) = S_0 r$$

Integration twice with respect to r gives:

$$T = -\frac{S_0 r^2}{4k} + C_1 \ln r + C_2$$

The two integration constants may be evaluated through use of the boundary conditions:

At $r = 0$, $T = \text{finite}$

At $r = R$, $T = T_0$

Application of these boundary conditions leads to Eq. 9.2-13.

9.H Heat Conduction from a Sphere to a Stagnant Fluid.

- a. The differential equation is the same as that derived in Prob. 9.F. For constant thermal conductivity this becomes:

$$\frac{d}{dr} \left(r^2 \frac{dT}{dr} \right) = 0$$

- b. Integration twice with respect to r gives:

$$T = -\frac{C_1}{r} + C_2$$

The boundary conditions are:

At $r = R$ $T = T_R$

At $r = \infty$ $T = T_\infty$

Therefore the temperature distribution is:

$$\frac{T - T_\infty}{T_R - T_\infty} = \frac{R}{r}$$

- c. The heat flux at the wall is then:

$$q_r \Big|_{r=R} = -k \frac{dT}{dr} \Big|_{r=R} = +k \frac{(T_R - T_\infty)}{R}$$

We now compare this expression with Newton's law of cooling:

$$q_r \Big|_{r=R} = h (T_R - T_\infty)$$

which defines h . Equating these last two expressions we get:

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Manual G. Verlarde



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Transport Phenomena Bird, 2001-11 Careful attention is paid to the presentation of the basic theory Enhanced sections throughout text provide much firmer foundation than the first edition Literature citations are given throughout for reference to additional material *Solution's Manual - Transport Phenomena Fundamentals Second Edition* Taylor & Francis Group, 2010-05-21 **Chemical Engineering Education**, 1994 **Introduction to Transport Phenomena** William Thomson, 1999-02 [Single Crystal Growth of Semiconductors from Metallic Solutions](#) Sadik Dost, Brian Lent, 2006-11-17 *Single Crystal Growth of Semiconductors from Metallic Solutions* covers the four principal growth techniques currently in use for the growth of semiconductor single crystals from metallic solutions Providing an in depth review of the state of the art of each both experimentally and by numerical simulations The importance of a close interaction between the numerical and experimental aspects of the processes is also emphasized Advances in the fields of electronics and opto electronics are hampered by the limited number of substrate materials which can be readily produced by melt growth techniques such as the Czochralski and Bridgman methods This can be alleviated by the use of alternative growth techniques and in particular growth from metallic solutions The principal techniques currently in use are Liquid Phase Epitaxy Liquid Phase Electroepitaxy the Travelling Heater Method and Liquid Phase Diffusion *Single Crystal Growth of Semiconductors from Metallic Solutions* will serve as a valuable reference tool for researchers and graduate and senior undergraduate students in the field of crystal growth It covers most of the models developed in recent years The detailed development of basic and constitutive equations and the associated interface and boundary conditions given for each technique will be very valuable to researchers for the development of their new models Describes the fundamentals of crystal growth modelling Providing a state of the art description of the mathematical and experimental growth processes Allows reader to gain clear insight into the practical and mathematical aspects of the topic [Reservoir Simulation Manual](#) Scientific Software Corporation, 1975

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