

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

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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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 **Introduction to Transport Phenomena** William Thomson, 1999-02 Chemical Engineering Education, 1994 Transport Phenomena R. Byron Bird, Warren E. Stewart, Edwin N. Lightfoot, 2006-12-11 The market leading transport phenomena text has been revised Authors Bird Stewart and Lightfoot have revised Transport Phenomena to include deeper and more extensive coverage of heat transfer enlarged discussion of dimensional analysis a new chapter on flow of polymers systematic discussions of convective momentum energy and mass transport and transport in two phase systems If this is your first look at Transport Phenomena you ll quickly learn that its balanced introduction to the subject of transport phenomena is the foundation of its long standing success About the Revised 2nd Edition Since the appearance of the second edition in 2002 the authors and numerous readers have found a number of errors some major and some minor In the Revised 2nd Edition the authors have endeavored to correct these errors A new ISBN has been assigned to the Revised 2nd Edition in order to more easily identify the most correct version For Bird s corrigenda please click here and see Transport Phenomena in the Books section **Solutions Manual to Accompany Elements of Transport Phenomena** Leighton E. Sissom, Donald R. Pitts, 1972 **Reservoir Simulation Manual** Scientific Software Corporation, 1975 Solutions Manual to Accompany Transport Phenomena in Materials Processing E. J. Poirier, D. R. Poirier, G. H. Geiger, 1994 This text provides a teachable and readable approach to transport phenomena by providing numerous examples and applications The text leads the reader through the development and solution of relevant differential equations by applying familiar principles of conservation to numerous situations and by including many worked examples in each chapter The book is organized similarly to other texts in transport phenomena Section I deals with the properties and mechanics of fluid motion Section II with thermal properties and heat transfer and Section III with diffusion and mass transfer The authors depart from tradition by building on a presumed understanding of the relationships between the structure and properties of matter particularly in the chapters devoted to the transport properties Generous portions of the text numerous examples and many problems apply transport phenomena to materials processing *Transport Phenomena in Materials Processing, Solutions Manual* D. R. Poirier, G. H. Geiger, 1998-07-16 This text provides a teachable and readable approach to transport phenomena momentum heat and mass transport by providing numerous examples and applications which are particularly important to metallurgical ceramic and materials engineers Because the authors feel that it is important for students and practicing engineers to visualize the physical situations they have attempted to lead the reader through the development and solution of the relevant differential equations by applying the familiar principles of conservation to numerous

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The Publishers' Trade List Annual, 1981 **Supplementary Problems and Solutions for Transport Phenomena** Robert Byron Bird, Warren E. Stewart, Edwin N. Lightfoot, 1961 *The British National Bibliography* Arthur James Wells, 2007 Books in Print, 1979 **Float-zone Processing in a Weightless Environment**, 1976 *Scientific and Technical Books in Print*, 1972 Scientific and Technical Books and Serials in Print, 1984 **Proceedings**, 1990

A Collection of Technical Papers, 1978 *Introductory Transport Phenomena* R. Byron Bird, Warren E. Stewart, Edwin N. Lightfoot, Daniel J. Klingenberg, 2014-12-15 Introductory Transport Phenomena by R Byron Bird Warren E Stewart Edwin N Lightfoot and Daniel Klingenberg is a new introductory textbook based on the classic Bird Stewart Lightfoot text Transport Phenomena The authors goal in writing this book reflects topics covered in an undergraduate course Some of the rigorous topics suitable for the advanced students have been retained The text covers topics such as the transport of momentum the transport of energy and the transport of chemical species The organization of the material is similar to Bird Stewart Lightfoot but presentation has been thoughtfully revised specifically for undergraduate students encountering these concepts for the first time Devoting more space to mathematical derivations and providing fuller explanations of mathematical developments including a section of the appendix devoted to mathematical topics allows students to comprehend transport phenomena concepts at an undergraduate level **NASA Contractor Report** United States. National Aeronautics and Space Administration, 1976

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