

Explicit and Approximated Solutions for Heat and Mass Transfer Problems with a Moving Interface

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1. Introduction

The goal of this chapter is firstly to give a survey of some explicit and approximated solutions for heat and mass transfer problems in which a free or moving interface is involved. Secondly, we show simultaneously some new recent problems for heat and mass transfer, in which a free or moving interface is also involved. We will consider the following problems:

- I. Phase-change process (Lamé-Clapeyron-Stefan problem) for a semi-infinite material:
 - i. The Lamé-Clapeyron solution for the one-phase solidification problem (modeling the solidification of the Earth with a square root law of time);
 - ii. The pseudo-steady-state approximation for the one-phase problem;
 - iii. The heat balance integral method (Goodman method) and the approximate solution for the one-phase problem;
 - iv. The Stefan solution for the planar phase-change surface moving with constant speed;
 - v. The Solomon-Wilson-Alexiades model for the phase-change process with a mushy region and its similarity solution for the one-phase case;
 - vi. The Cho-Sunderland solution for the one-phase problem with temperature-dependent thermal conductivity;
 - vii. The Neumann solution for the two-phase problem for prescribed surface temperature at the fixed face;
 - viii. The Neumann-type solution for the two-phase problem for a particular prescribed heat flux at the fixed face, and the necessary and sufficient condition to have an instantaneous phase-change process;
 - ix. The Neumann-type solution for the two-phase problem for a particular prescribed convective condition (Newton law) at the fixed face, and the necessary and sufficient condition to have an instantaneous phase-change process;
 - x. The similarity solution for the two-phase Lamé-Clapeyron-Stefan problem with a mushy region.
 - xi. The similarity solution for the phase-change problem by considering a density jump;
 - xii. The determination of one or two unknown thermal coefficients through an over-specified condition at the fixed face for one or two-phase cases.
 - xiii. A similarity solution for the thawing in a saturated porous medium by considering a density jump and the influence of the pressure on the melting temperature.

Mass Transfer Problems Solutions

E.J. Poirer, D.R. Poirer



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Transport Phenomena in Materials Processing E.J. Poirer,D.R. Poirer,2017-08-18 Advanced Transport Phenomena John C. Slattery,1999-07-13 Text on momentum energy and mass transfer for graduate engineering students

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 Dispersed Media* G. I. Kelbaliyev,D. B. Tagiyev,S.R. Rasulov,2019-09-26 Transport Phenomena in Dispersed Media addresses the main problems associated with the transfer of heat mass and momentum The authors focus on the analytical solutions of the mass and heat transfer equations the theoretical problems of coalescence coagulation aggregation and fragmentation of dispersed particles the rheology of structured aggregate and kinetically stable disperse systems the precipitation of particles in a turbulent flow the evolution of the distribution function the stochastic counterpart of the mass transfer equations the dissipation of energy in disperse systems and many other problems that distinguish this book from existing publications **Key Selling Features** Covers all technological processes taking place in the oil and gas complex as well as in the petrochemical industry Presents new original solutions for calculating design as well as for the development and implementation of processes of chemical technology Organized to first provide an extensive review of each chapter topic solve specific problems and then review the solutions with the reader Contains complex mathematical expressions for practical calculations Compares results obtained on the basis of mathematical models with experimental data **Analytical Solutions for Transport Processes** Günter Brenn,2016-07-26 This book provides analytical solutions to a number of classical problems in transport processes i e in fluid mechanics heat and mass transfer Expanding computing power and more efficient numerical methods have increased the importance of computational tools However the interpretation of these results is often difficult and the computational results need to be tested against the analytical results making analytical solutions a valuable commodity Furthermore analytical solutions for transport processes provide a much deeper understanding of the physical phenomena involved in a given process than do corresponding numerical solutions Though this book primarily addresses the needs of researchers and practitioners it may also be beneficial for graduate students just entering the field **Case Studies in Fluid Mechanics**

with Sensitivities to Governing Variables M. Kemal Atesmen, 2018-11-06 Covers a wide range of practical fluid mechanics heat transfer and mass transfer problems This book covers the many issues that occur in practical fluid mechanics heat transfer and mass transfer and examines the basic laws the conservation of matter conservation of momentum conservation of energy and the second law of thermodynamics of these areas It offers problem solutions that start with simplifying engineering assumptions and then identifies the governing equations and dependent and independent variables When solutions to basic equations are not possible the book utilizes historical experimental studies It also looks at determining appropriate thermo physical properties of the fluid under investigation and covers solutions to governing equations with experimental studies Case Studies in Fluid Mechanics with Sensitivities to Governing Variables offers chapters on draining fluid from a tank vertical rise of a weather balloon wind drag forces on people Venturi meter fluid s surface shape in a rotating cylindrical tank range of an aircraft designing a water clock water turbine under a dam centrifugal separation of particles ideal gas flow in nozzles and diffusers water supply from a lake to a factory convection mass transfer through air water interface heating a room by natural convection condensation on the surface of a vertical plate in laminar flow regime bubble rise in a glass of beer and more Covers a broad spectrum of problems in practical fluid mechanics heat transfer and mass transfer Examines the basic laws of fluid mechanics heat transfer and mass transfer Presents solutions to governing equations with experimental studies Case Studies in Fluid Mechanics with Sensitivities to Governing Variables will appeal to engineers working in thermo physical sciences and graduate students in mechanical engineering

Heat and Mass Transfer Hans Dieter Baehr, Karl Stephan, 2006-08-02 This book provides a solid foundation in the principles of heat and mass transfer and shows how to solve problems by applying modern methods The basic theory is developed systematically exploring in detail the solution methods to all important problems The revised second edition incorporates state of the art findings on heat and mass transfer correlations The book will be useful not only to upper and graduate level students but also to practicing scientists and engineers Many worked out examples and numerous exercises with their solutions will facilitate learning and understanding and an appendix includes data on key properties of important substances

Applied Mechanics Reviews, 1967

Transport Phenomena Problem Solver, 1984

Unified Analysis and Solutions of Heat and Mass Diffusion Mikhail Dimitrov Mikhaïlov, 1984 This excellent monograph by two experts presents a generalized and systematic approach to the analytic solution of seven different classes of linear heat and mass diffusion problems 1984 edition

Numerical Solution of Free and Moving Boundary Problems on Fixed and Arbitrary Deforming Meshes Shengji Peng, 1994

Mass Transfer Operations for the Practicing Engineer Louis Theodore, Francesco Ricci, 2011-12-06 An invaluable guide for problem solving in mass transfer operations This book takes a highly pragmatic approach to providing the principles and applications of mass transfer operations by offering a valuable easily accessible guide to solving engineering problems Both traditional and novel mass transfer processes receive treatment As with all of the books in this series emphasis is placed on

an example based approach to illustrating key engineering concepts The book is divided into two major parts It starts with the principles underlying engineering problems showing readers how to apply general engineering principles to the topic of mass transfer operations It then goes on to provide step by step guidance for traditional mass transfer operations including distillation absorption and stripping and adsorption plus novel mass transfer processes Essential topics for professional engineering exams are also covered Geared towards chemical environmental civil and mechanical engineers working on real world industrial applications Mass Transfer Operations for the Practicing Engineer features Numerous sample problems and solutions with real world applications Clear precise explanations on how to carry out the basic calculations associated with mass transfer operations Coverage of topics from the ground up for readers without prior knowledge of the subject Overview of topics relevant to the ABET Accreditation Board for Engineering and Technology for those taking the Professional Engineering PE exams Appendix containing relevant mass transfer operation charts and tables

Numerical Methods in Thermal Problems Roland Wynne Lewis, Kenneth Morgan, 1979

Chemical Engineering: Solutions to the Problems in Volume 1 J R Backhurst, J H Harker, J.F. Richardson, 2013-10-22 This volume in the Coulson and Richardson series in chemical engineering contains full worked solutions to the problems posed in volume 1 Whilst the main volume contains illustrative worked examples throughout the text this book contains answers to the more challenging questions posed at the end of each chapter of the main text These questions are of both a standard and non standard nature and so will prove to be of interest to both academic staff teaching courses in this area and to the keen student Chemical engineers in industry who are looking for a standard solution to a real life problem will also find the book of considerable interest An invaluable source of information for the student studying the material contained in Chemical Engineering Volume 1 A helpful method of learning answers are explained in full

Encyclopedia of Agricultural, Food, and Biological Engineering Dennis R. Heldman, Carmen I. Moraru, 2010-10-21 Examining the role of engineering in delivery of quality consumer products this expansive resource covers the development and design of procedures equipment and systems utilized in the production and conversion of raw materials into food and nonfood consumer goods With nearly 2000 photographs figures tables and equations including 128 color figures the book emphasizes and illustrates the various engineering processes associated with the production of materials with agricultural origin With contributions from more than 350 experts and featuring more than 200 entries and 3600 references this is the largest and most comprehensive guide on raw production technology

Transport Phenomena in Materials Processing David R. Poirier, G. Geiger, 2016-12-06 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 situations and by including many worked examples in each chapter The book is organized in a manner characteristic of 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 viscosity thermal conductivity and the diffusion coefficients In addition generous portions of the text numerous examples and many problems at the ends of the chapters apply transport phenomena to materials processing

Numerical Methods in Thermal Problems, 1989 **Fundamentals of Heat and Mass Transfer** C. P. Kothandaraman, 2006 About the Book Salient features A number of Complex problems along with the solutions are provided Objective type questions for self evaluation and better understanding of the subject Problems related to the practical aspects of the subject have been worked out Checking the authenticity of dimensional homogeneity in case of all derived equations Validation of numerical solutions by cross checking Plenty of graded exercise problems from simple to complex situations are included Variety of questions have been included for the clear grasping of the basic principles Redrawing of all the figures for more clarity and understanding Radiation shape factor charts and Heisler charts have also been included Essential tables are included The basic topics have been elaborately discussed Presented in a more better and fresher way Contents An Overview of Heat Transfer Steady State Conduction Conduction with Heat Generation Heat Transfer with Extended Surfaces FINS Two Dimensional Steady Heat Conduction Transient Heat Conduction Convection Convective Heat Transfer Practical Correlation Flow Over Surfaces Forced Convection Natural Convection Phase Change Processes Boiling Condensation Freezing and Melting Heat Exchangers Thermal Radiation Mass Transfer

Solutions to Some of the Problems in Momentum, Heat, and Mass Transfer Carroll O. Bennett, J. E. Myers, 1963*

Theoretical Foundations of Chemical Engineering, 1981

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