

# 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

**Katrin Zwirgmaier**



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## **Table of Contents Mass Transfer Problems Solutions**

1. Understanding the eBook Mass Transfer Problems Solutions
  - The Rise of Digital Reading Mass Transfer Problems Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Mass Transfer Problems Solutions
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Mass Transfer Problems Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mass Transfer Problems Solutions
  - Personalized Recommendations
  - Mass Transfer Problems Solutions User Reviews and Ratings
  - Mass Transfer Problems Solutions and Bestseller Lists
5. Accessing Mass Transfer Problems Solutions Free and Paid eBooks
  - Mass Transfer Problems Solutions Public Domain eBooks
  - Mass Transfer Problems Solutions eBook Subscription Services
  - Mass Transfer Problems Solutions Budget-Friendly Options

6. Navigating Mass Transfer Problems Solutions eBook Formats
  - ePub, PDF, MOBI, and More
  - Mass Transfer Problems Solutions Compatibility with Devices
  - Mass Transfer Problems Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mass Transfer Problems Solutions
  - Highlighting and Note-Taking Mass Transfer Problems Solutions
  - Interactive Elements Mass Transfer Problems Solutions
8. Staying Engaged with Mass Transfer Problems Solutions
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mass Transfer Problems Solutions
9. Balancing eBooks and Physical Books Mass Transfer Problems Solutions
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mass Transfer Problems Solutions
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Mass Transfer Problems Solutions
  - Setting Reading Goals Mass Transfer Problems Solutions
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mass Transfer Problems Solutions
  - Fact-Checking eBook Content of Mass Transfer Problems Solutions
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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