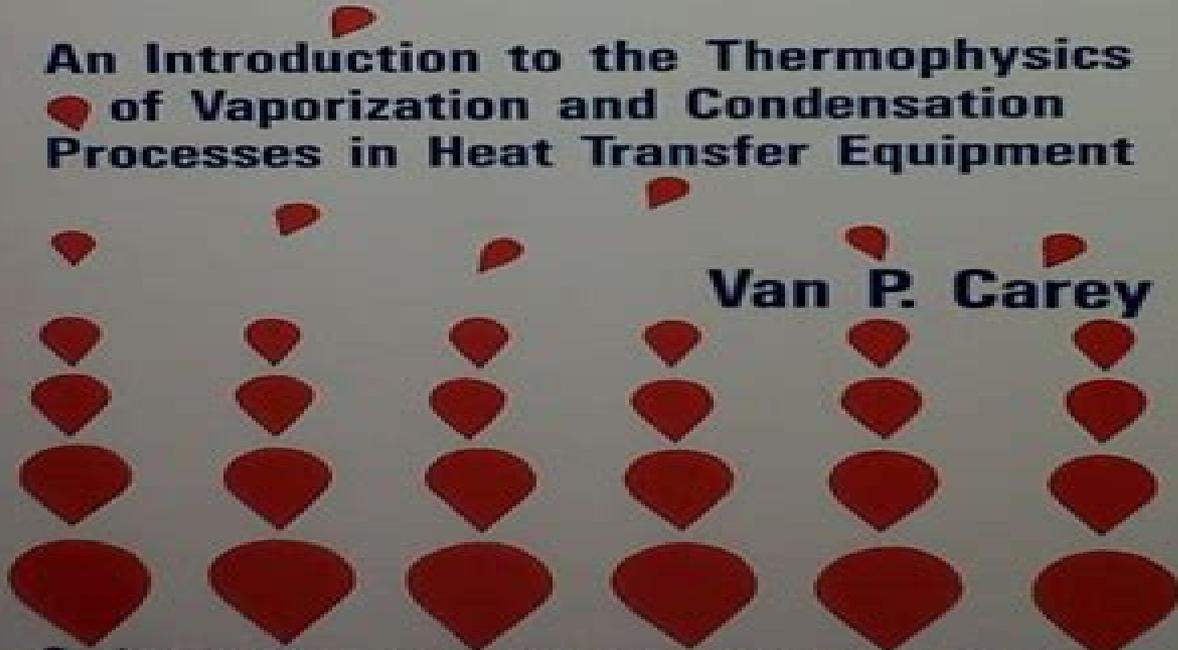


# **LIQUID-VAPOR PHASE-CHANGE PHENOMENA**

**An Introduction to the Thermophysics  
of Vaporization and Condensation  
Processes in Heat Transfer Equipment**

**Van P. Carey**



**Series in Chemical and Mechanical Engineering**

# Liquid Vapor Phase Change Phenomena

**Clemens Wendtner**



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Liquid-vapor Phase-change Phenomena Van P. Carey, 1992. This advanced textbook for courses covering heat transfer with phase change was developed based on the author's wide experience of teaching courses on the subject. In his comprehensive treatment, Carey offers through illustrative examples and problems a presentation of non-equilibrium thermodynamics and interfacial phenomena associated with vaporization and condensation processes, in addition to fundamentals of heat transfer and fluid flow mechanisms. The sequence in which the material is presented is designed to facilitate instruction at the advanced undergraduate level in mechanical and chemical engineering. Tables of thermophysical properties are included in an appendix to aid in the solution to many of the homework problems.

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Artificial Intelligence in Chemical Engineering Farooq Sher, 2025-10-09 Artificial Intelligence in Chemical Engineering explores the integration of artificial intelligence AI into various facets of chemical engineering The book introduces historical information highlights current state and trends in AI applications and discusses challenges and opportunities within the field Foundational principles of AI and machine learning are thoroughly covered giving readers a solid understanding of basic AI principles machine learning algorithms and the crucial processes of model training and validation The book then delves into the critical phase of data acquisition and preprocessing for AI models addressing strategies for data collection ensuring data quality and techniques for feature engineering and selection Subsequent chapters cover a wide spectrum of AI applications in chemical engineering From supervised and unsupervised learning for process modeling to the advanced realm of deep learning applications this book explores neural networks convolutional and recurrent architectures and their real world applications in process optimization and analysis Navigates the dynamic intersection of AI and chemical engineering covering ethical considerations interdisciplinary applications and AI's impact on safety sustainability and innovation Bridges the gap between policy and implementation of AI in chemical engineering facilitating a harmonious integration of AI technologies and fostering responsible and effective use within the chemical engineering industry Offers a forward looking approach to guide professionals researchers and students in navigating the dynamic and transformative future of AI in chemical engineering

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## **Table of Contents Liquid Vapor Phase Change Phenomena**

1. Understanding the eBook Liquid Vapor Phase Change Phenomena
  - The Rise of Digital Reading Liquid Vapor Phase Change Phenomena
  - Advantages of eBooks Over Traditional Books
2. Identifying Liquid Vapor Phase Change Phenomena
  - 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 Liquid Vapor Phase Change Phenomena
  - User-Friendly Interface
4. Exploring eBook Recommendations from Liquid Vapor Phase Change Phenomena
  - Personalized Recommendations
  - Liquid Vapor Phase Change Phenomena User Reviews and Ratings
  - Liquid Vapor Phase Change Phenomena and Bestseller Lists
5. Accessing Liquid Vapor Phase Change Phenomena Free and Paid eBooks
  - Liquid Vapor Phase Change Phenomena Public Domain eBooks
  - Liquid Vapor Phase Change Phenomena eBook Subscription Services
  - Liquid Vapor Phase Change Phenomena Budget-Friendly Options

6. Navigating Liquid Vapor Phase Change Phenomena eBook Formats
  - ePub, PDF, MOBI, and More
  - Liquid Vapor Phase Change Phenomena Compatibility with Devices
  - Liquid Vapor Phase Change Phenomena Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Liquid Vapor Phase Change Phenomena
  - Highlighting and Note-Taking Liquid Vapor Phase Change Phenomena
  - Interactive Elements Liquid Vapor Phase Change Phenomena
8. Staying Engaged with Liquid Vapor Phase Change Phenomena
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Liquid Vapor Phase Change Phenomena
9. Balancing eBooks and Physical Books Liquid Vapor Phase Change Phenomena
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Liquid Vapor Phase Change Phenomena
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Liquid Vapor Phase Change Phenomena
  - Setting Reading Goals Liquid Vapor Phase Change Phenomena
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Liquid Vapor Phase Change Phenomena
  - Fact-Checking eBook Content of Liquid Vapor Phase Change Phenomena
  - 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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