

CHAPTER 9

PHASE DIAGRAMS

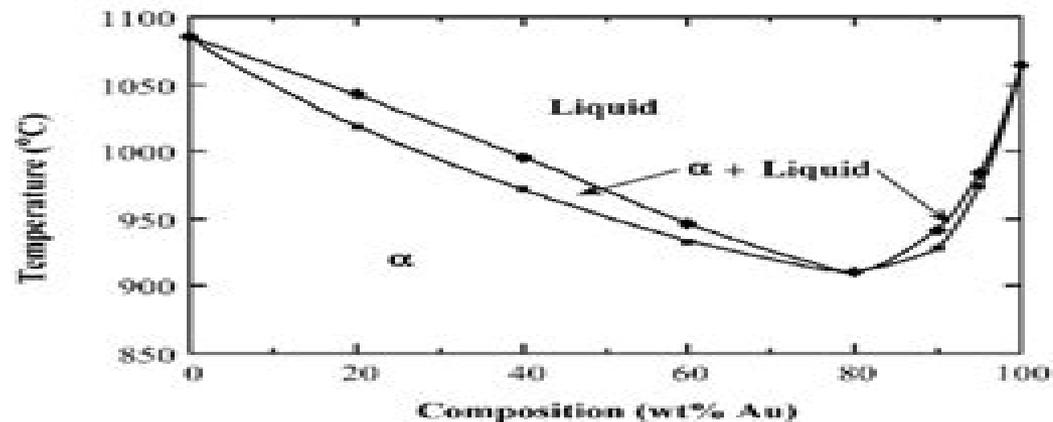
PROBLEM SOLUTIONS

9.7 Given here are the solidus and liquidus temperatures for the copper-gold system. Construct the phase diagram for this system and label each region.

Composition (wt% Au)	Solidus Temperature ($^{\circ}\text{C}$)	Liquidus Temperature ($^{\circ}\text{C}$)
0	1085	1085
20	1019	1042
40	972	996
60	934	946
80	911	911
90	928	942
95	974	984
100	1064	1064

Solution

The copper-gold phase diagram is constructed below.



9.10 Cite the phases that are present and the phase compositions for the following alloys:

- 15 wt% Sn–85 wt% Pb at 100 $^{\circ}\text{C}$ (212 $^{\circ}\text{F}$)
- 25 wt% Pb–75 wt% Mg at 425 $^{\circ}\text{C}$ (800 $^{\circ}\text{F}$)
- 85 wt% Ag–15 wt% Cu at 800 $^{\circ}\text{C}$ (1470 $^{\circ}\text{F}$)

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Table of Contents Chapter 9 Phase Diagrams Problem Solutions

1. Understanding the eBook Chapter 9 Phase Diagrams Problem Solutions
 - The Rise of Digital Reading Chapter 9 Phase Diagrams Problem Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 9 Phase Diagrams Problem 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 Chapter 9 Phase Diagrams Problem Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 9 Phase Diagrams Problem Solutions
 - Personalized Recommendations
 - Chapter 9 Phase Diagrams Problem Solutions User Reviews and Ratings
 - Chapter 9 Phase Diagrams Problem Solutions and Bestseller Lists
5. Accessing Chapter 9 Phase Diagrams Problem Solutions Free and Paid eBooks

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