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in a phase diagram
to determine phase
fraction Iron-carbon
(Steel) Phase

Diagram w/ Pro-
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Problem

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SOLUTIONS 9.17 A

90 wt% Ag-10 wt%

Cu alloy is heated

to a temperature

within the β +

liquid phase region.

If the composition

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of the liquid phase is 85 wt% Ag, determine: (a) The temperature of the alloy (b) The composition of the β phase (c) The mass fractions of both phases
Solution

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SOLUTIONS

Chapter 7; Chapter
8; Chapter 9. Phase
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Questions and
Problems. 9.1a

9.1b 9.2a 9.2b 9.3

9.4 9.5a 9.5b 9.6a

9.6b 9.7 Phase

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9 Problems - Page ...

Chapter 9 - 10

Phase Diagrams □

Indicate phases as

function of T, Co,

and P. □ For this

course:-binary

systems: just 2 co

mponents.-independ

ent variables: T

and Co (P = 1 atm

is almost always

used). □ Phase

Diagram for Cu-Ni

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system Adapted
from Fig. 9.3(a),
Callister 7e. (Fig.
9.3(a) is adapted
from Phase

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SOLUTIONS Pages

1 - 7 ...

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SOLUTIONS 9.1

Three variables that determine the microstructure of an alloy are 1) the alloying elements present, 2) the concentrations of these alloying

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elements, and 3) the heat treatment of the alloy. 9.2 In order for a system to exist in a state of equilibrium the free energy must be a minimum for some specified combination of temperature, pressure, and composition. 9.3 Diffusion occurs

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during the
development of
microstructure in
the absence of a ...

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SOLUTIONS 9.1 ...

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Diagrams 15 The

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9 Phase Diagrams
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lever rule Finding the amounts of phases in a two phase region: 1. Locate composition and temperature in diagram 2. In two phase region draw the tie line or isotherm 3. Fraction of a phase is determined by taking the length of the tie line to the

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Phase boundary for
the other

Diagrams

Chapter Outline:

Phase Diagrams

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Phase Diagrams

QUESTIONS AND

PROBLEMS

Solubility Limit 9.1

Consider the

sugar–water phase
diagram of Figure

9.1. (a) How much

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sugar will dissolve in 1000 g of water at ()? (b) If the saturated liquid solution in part (a) is cooled to (), some of the sugar will precipitate out as a solid. What will be

QUESTIONS AND PROBLEMS

Solution This

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9 Phase Diagrams
Problem
A problem asks us to determine the phases present and their

concentrations at several temperatures, as an alloy of composition 52 wt% Zn-48 wt% Cu is cooled. From Figure 9.19 (the Cu-Zn phase diagram), which is shown

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below with a
vertical line
constructed at the
specified

composition: At
1000 C, a liquid
phase is present;
 $WL = 1$.

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carbon alloy at the
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eutectic
temperature
eutectic phase
diagram how many
kilograms ...

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phase diagrams
Problem 9.1. Molar
axes Problem 9.2.
Sets of conjugate
variables
containing molar
variables Problem
9.4. Sections of
molar phase
diagrams Problem
9.6. Topology of
sectioned molar

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9 Phase diagrams 9.1.

Molar axes

Compute and plot the phase diagram for Fe-C at 1 atm and between 1650 and 1850 K and 0 and 0.03 mol% C.

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HW8 SOLUTION

KEY 917 This
problem asks if a
noncold-worked Cu-
Ni solid solution

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9 Phase is possible

Diagrams Chapter 9 Phase Diagrams Problem Solutions

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SOLUTIONS 917 A
90 wt% Ag-10 wt%
Cu alloy is heated
to a temperature
within the $\beta +$
liquid phase region

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If the composition of the liquid phase is 85 wt% Ag, determine: (a) The temperature of the alloy (b) The composition of the β phase (c) The

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These show up as something like a

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9 Phase Diagrams
3 Problem Solutions

vertical line in a phase diagram. Examples include Mg₂Pb in figure 10.20 and the vertical line at 44.9 wt% Ti in figure 10.22. An additional reaction is also introduced, the peritectic reaction $\delta + L \rightarrow \gamma$ ϵ , where a solid and liquid phase

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react to form a different solid phase. Example Problem: Consider 1 kg of brass with a composition of 35 wt.% Zn- 65 wt.% Cu.

Chapter 9: Phase Diagrams Pages 1 - 23 - Text Version ...
Problem 1.
Consider the sugar-

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diagram of Figure

9.1. (a) How much

sugar will dissolve

in 1000 g of water

at. (b) If the

saturated liquid

solution in part (a)

is cooled to some

of the sugar will

precipitate out as a

solid. What will be

the composition of

the saturated liquid

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solution (in wt\% sugar) at.

Phase Diagrams |
Materials Science
and Engineerin...

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PROBLEM

SOLUTIONS 9.9 Is it possible to have a copper – nickel alloy that, at equilibrium,

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9 Phase

consists of a liquid
phase of

composition 20

wt% Ni – 80 wt%

Cu and also an

phase of

composition 37

wt% Ni – 63 wt%

Cu? If so, what will

be the approximate

temperature of the

alloy? If this is not

possible, explain

why. Solution It is

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not possible to
have a Cu-Ni alloy

...

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SOLUTIONS 9.17 A

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Cu alloy is heated

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If the composition

of the liquid phase

is 85 wt% Ag,

determine: (a) The

temperature of the

alloy (b) The

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composition of the β phase (c) The mass fractions of both phases

Solution (a) In order to determine the temperature of a 90 wt% Ag-10 wt% Cu alloy for ...

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Question: HW Of

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ETM 307 Chapter

9: Phase Diagram

20 Pts In Total

Please Use Phase

Diagram To Explain

Why Micro-

segregation And

Macro-segregation

Happen During

Practical

Solidification. This

problem has been

solved! See the

answer. Show

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text. Expert Answer

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Problem

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Phase Diagram 20

Pts In T ...

The Phase Diagram
of Water. Figure
11.7.2 shows the
phase diagram of
water and
illustrates that the

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triple point of water occurs at 0.01°C and 0.00604 atm (4.59 mmHg). Far more reproducible than the melting point of ice, which depends on the amount of dissolved air and the atmospheric pressure, the triple point (273.16 K) is used to define the

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absolute (Kelvin)
temperature scale.

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