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 Given:Temperature in  
 first case,  
 $T_1=8300C=1103.15\text{ K}$   
 Diffusion time at  
 $8300C$ ,  $t_{830}=13\text{ min}$   
 Position at which the  
 carbon concentration  
 increases to  $0.87\text{ wt\%}$ ,  
 $x=1.6\text{ mm}$   
 Temperature in second  
 case,  $T_2=$  view the full  
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For some hypothetical  
metal, the equilibrium  
number of vacancies at

900 C is 2.3 10<sup>25</sup> m<sup>-3</sup>.  
3.If the density and  
atomic weight of this  
metal are 7.40 g/cm<sup>3</sup>  
and 85.5 g/mol,  
respectively, calculate  
the fraction of  
vacancies for this  
metal at 900 C.  
Solution This problem  
is solved using two  
steps: (1) calculate the  
total number of lattice  
sites in silver, N,  
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 and atomic weight.  
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 individual atom  
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 focuses on  
 understanding how the  
 properties (or  
 characteristics) of

materials are based on  
 their atomic- and  
 microscopic-scale  
 structure. The term  
 microstructure refers  
 to this microscopic-  
 scale structure.

Materials science grew  
 out of the fields of  
 physical chemistry,  
 polymer chemistry,  
 and condensed-matter  
 physics.

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4.2 For some hypothetical metal, the equilibrium number of vacancies at 900 C is 2.3  $10^{25}$  m<sup>3</sup>. If the density and atomic weight of this metal are 7.40 g/cm<sup>3</sup> and 85.5 g/mol, respectively, calculate the fraction of vacancies for this metal at 900 C.  
Solution This problem

is solved using two steps: (1) calculate the total number of lattice sites in silver, N, using [Material science and engineering callister solution manual 9th](#) Answers To Callister Materials Science 8th Edition Author: [www.ftik.usm.ac.id-2020-10-29-00-26-54](http://www.ftik.usm.ac.id-2020-10-29-00-26-54) Subject: Answers To Callister Materials Science 8th Edition Keywords: answers,to,callister,materials,science,8th,edition Created Date: 10/29/2020 12:26:54 AM  
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 $T_1 = 8300\text{C} = 1103.15\text{ K}$   
 Diffusion time at 8300C,  $t_{830} = 13\text{ min}$   
 Position at which the carbon concentration increases to 0.87 wt%,  
 $x = 1.6\text{ mm}$

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