Atomic bonding

Ionic: Anions gain electrons, cations lose electrons
Covalent: electrons shared between two atoms
Metallic: electrons shared between many atoms
Van der Waals: temporary or permanent dipole interacts with other objects
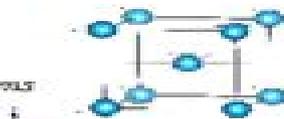
Crystal structures

BODY CENTERED CUBIC

$4R = \sqrt{a^2 + a^2 + a^2}$
$4R = a\sqrt{3}$
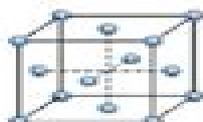1 center atom, 8 corner atoms
2 atoms per unit cell

FACE CENTERED CUBIC

$4R = \sqrt{a^2 + a^2}$
$4R = a\sqrt{2}$
6 face atoms, 8 corner atoms
4 atoms per unit cell

Volume of a cubic $= a^3$
$\mathring{A} = 10^{-10}\,m$
Avogadro No $= 6.022 \cdot 10^{23} \left(\frac{atoms}{mol}\right)$

$Density = \frac{mass}{volume} = \frac{\#\,of\,atoms \times atomic\,mass}{volume\,of\,unit\,cell \cdot Avogadro}$

Miller Indices

example	#	B	c
1. Intercepts	1	1	∞
2. Reciprocals	1/1	1/1	1/∞
	1	1	0
3. Reduction	1	1	0
4. Miller Indices	(110)		

example	#	B	c
1. Intercepts	1/2	∞	∞
2. Reciprocals	1/½	1/∞	1/∞
	2	0	0
3. Reduction	2	0	0
4. Miller Indices	(200)		

$Planar\,Density = \frac{atoms\,per\,face}{area\,of\,face}$

$Packing\,Factor = \frac{volume\,of\,atom \times number\,of\,\frac{atoms}{cell}}{volume\,of\,the\,unit\,cell}$

Point Defects

$n_v = n \cdot e^{-\frac{Q_v}{RT}}$

$n_v = \#\frac{vacancies}{cm^3},\ n = \#\frac{atoms}{cm^3},$

$Q_v = energy\,for\,1\,mol\,of\,vacancies, T = Temp$

$R = Gas\,constant = 1.987\,\frac{cal}{mol\,K} = 8.314\,\frac{Joules}{mol\,K}$

Diffusion

$D = D_o \cdot e^{-\frac{Q}{RT}}$

$D_o = constant\,based\,on\,material$

$Q_v = energy\,for\,1\,mol\,of\,vacancies, T = Temp$

$R = Gas\,constant = 1.987\,\frac{cal}{mol \cdot K} = 8.314\,\frac{Joules}{mol \cdot K}$

$J = -D \cdot \frac{dc}{dx},\ x = thickness, J = Flux$ - Fick's 1st law
$c = Compositions\,in\,atomic\,percent$

Mechanical Properties

$Engineering\,stress\,(S) = \frac{F}{A_o}$

$Engineering\,Strain\,(e) = \frac{\Delta l}{l}$

$Young\,Modulus\,(E) = \frac{S}{e}$

$F = Force, A_o = Area$
$\Delta l = Change\,in\,length, l = Original\,length$
$K_c\,or\,K_{ic} = f\sigma\sqrt{\pi a}$
$\sigma = Exposed\,stress, a = flaw\,size$
$f = geometry\,factor\,for\,the\,specimen\,and\,flaw$
$K_c = fracture\,toughness$
$K_{ic} = plain\,strain\,fracture\,toughness$
$\pm\sigma = 5.09 \cdot \frac{FL}{d^3}$
$F = Applied\,Load, L = Length\,of\,shaft$
$d = diameter\,of\,shaft$

$1 - F(V) = \exp\left[-\left(\frac{\sigma}{\sigma_o}\right)^m\right]$

$m = Weibull\,Modulus, \sigma = Flexural\,Strength$
$F = Failure, \sigma_o = Initial\,Flexural\,Strength$
$Poissons\,Ratio\,(v) = \frac{-e_{lateral}}{e_{longitudinal}}$
$Modulus\,of\,resilience\,(E_r) = \frac{1}{2}(yield\,strength)(strain@yielding)$
$Ductility\,\%Elongation = \frac{l_f - l_o}{l_o} \cdot 100\%$
$Ductility\,\%Reduction\,in\,area = \frac{A_o - A_f}{A_o} \cdot 100\%$
$True\,Stress = \frac{F}{A_f}$
$True\,Strain = \ln\left(\frac{l}{l_o}\right)$
$\sigma_t = K\varepsilon_t^n$
$n = strain\,coefficient, K = Constant,$
$\varepsilon_t = True\,strain, \sigma_t = True\,Stress$
$\sigma_m = 2\sigma_o\left(\frac{a}{r_c}\right)^{\frac{1}{2}}$
$\sigma_m = Stress\,@\,Crack\,tip, \sigma_o = Applied\,stress$
$a = Crack\,Length, r_c = radius\,of\,curvature$
$\sigma_c = \left(\frac{2E\gamma_s}{a\pi}\right)^{\frac{1}{2}}$
$\sigma_c = Critical\,Stress, E = elastic\,modulus$
$\gamma_s = specific\,surface\,energy$
$a = one\,half\,length\,of\,internal\,crack$

Solidification and Nucleation

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