

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

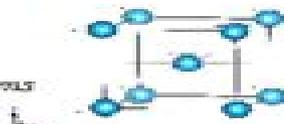
BODY CENTERED CUBIC

$$4R = \sqrt{a^2 + a^2 + a^2}$$

$$4R = a\sqrt{3}$$

1 center atom, 8 corner atoms

2 atoms per unit cell



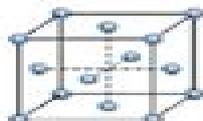
FACE CENTERED CUBIC

$$4R = \sqrt{a^2 + a^2}$$

$$4R = a\sqrt{2}$$

6 face atoms, 8 corner atoms

4 atoms per unit cell



Volume of a cubic = a^3

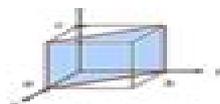
$$A = 10^{-10} \text{ m}$$

$$\text{Avogadro No} = 6.022 \times 10^{23} \left(\frac{\text{atoms}}{\text{mol}} \right)$$

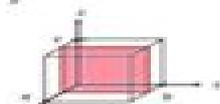
$$\text{Density} = \frac{\text{mass}}{\text{volume}} = \frac{\# \text{ of atoms} \times \text{atomic mass}}{\text{volume of unit cell} \times \text{Avogadro}}$$

Miller Indices

crystal	h	k	l
1. Intercepts	1	1	1
2. Reciprocals	1/1	1/1	1/1
3. Reduction	1	1	1
4. Miller indices	(111)		



crystal	h	k	l
1. Intercepts	1/2	1	1
2. Reciprocals	2/1	1/1	1/1
3. Reduction	2	1	1
4. Miller indices	(211)		



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

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

Point Defects

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

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

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

$$R = \text{Gas constant} = 1.987 \frac{\text{cal}}{\text{mol} \cdot K} = 8.314 \frac{\text{joules}}{\text{mol} \cdot K}$$

Diffusion

$$D = D_0 \cdot e^{-\frac{Q}{RT}}$$

D_0 = constant based on material

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

$$R = \text{Gas constant} = 1.987 \frac{\text{cal}}{\text{mol} \cdot K} = 8.314 \frac{\text{joules}}{\text{mol} \cdot K}$$

$$J = -D \cdot \frac{dc}{dx}, x = \text{thickness}, J = \text{Flux} \text{ - Fick's 1st law}$$

c = Compositions in atomic percent

Mechanical Properties

$$\text{Engineering stress (S)} = \frac{F}{A_0}$$

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

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

F = Force, A_0 = Area

Δl = Change in length, l = Original length

$$K_f \text{ or } K_{fc} = f \sqrt{\pi a}$$

σ = Exposed stress, a = flaw size

f = geometry factor for the specimen and flaw

K_{fc} = 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

$$1 - K(V) = \exp \left[- \left(\frac{\sigma}{\sigma_0} \right)^m \right]$$

m = Weibull Modulus, σ_0 = Flexural Strength

F = Failure, σ_0 = Initial Flexural Strength

$$\text{Poissons Ratio (v)} = \frac{-\epsilon_{lateral}}{\epsilon_{longitudinal}}$$

$$\text{Modulus of resilience (E}_r) = \frac{1}{2} (\text{yield strength}) (\text{strain@yielding})$$

$$\text{Ductility \%Elongation} = \frac{l_f - l_0}{l_0} \cdot 100\%$$

$$\text{Ductility \%Reduction in area} = \frac{A_0 - A_f}{A_0} \cdot 100\%$$

$$\text{True Stress} = \frac{F}{A_f}$$

$$\text{True Strain} = \ln \left(\frac{l}{l_0} \right)$$

$$\sigma_t = K \epsilon_t^n$$

n = strain coefficient, K = Constant

ϵ_t = True strain, σ_t = True Stress

$$\sigma_m = 2\sigma_0 \left(\frac{a}{r_0} \right)^{\frac{1}{2}}$$

σ_m = Stress @ Crack tip, σ_0 = Applied stress

a = Crack Length, r_0 = radius of curvature

$$\sigma_c = \left(\frac{2E\gamma_s}{\pi a} \right)^{\frac{1}{2}}$$

σ_c = Critical Stress, E = elastic modulus

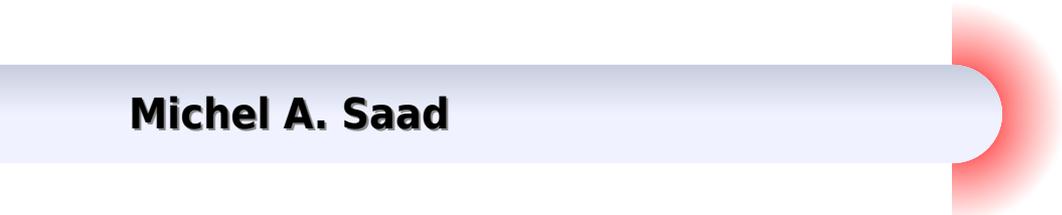
γ_s = specific surface energy

a = one half length of internal crack

Solidification and Nucleation

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Michel A. Saad



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Computers in Education Journal, 1991 [Entertainment Computing - ICEC 2025](#) Maki Sugimoto, Angelo Di Iorio, Pablo Figueroa, Ryosuke Yamanishi, Kohei Matsumura, 2025-08-21 This book constitutes the refereed proceedings of the 24th International Conference on Entertainment Computing ICEC 2025 held in Tokyo Japan during August 27-30 2025 The 28 full

papers and 17 short papers included in this book were carefully reviewed and selected from 109 submissions They were organized in topical sections as follows Full Conference Papers Work in Progress Interactive Entertainment Showcase and Student Competition *Innovations in E-learning, Instruction Technology, Assessment and Engineering Education* Magued Iskander,2007-09-04 This book includes a set of rigorously reviewed world class manuscripts addressing and detailing state of the art research projects in the areas of Engineering Education Instructional Technology Assessment and E learning The book presents selected papers form the conference proceedings of the International Conference on Engineering Education Instructional Technology Assessment and E learning EIAE 2006 All aspects of the conference were managed on line

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