



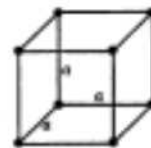
03

METALURGIA FÍSICA

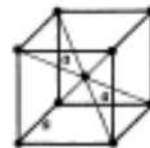
TECNOLOGIA DA CONFORMAÇÃO PLÁSTICA

Tecnologia em Materiais
Prof. Luis Fernando Maffeis Martins

Lembrando...



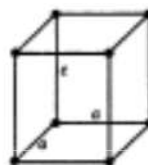
Cúbico Simples (P)



Cúbico de Corpo Centrado (I)



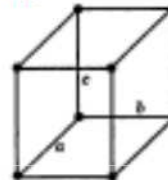
Cúbico de Faces Centradas (F)



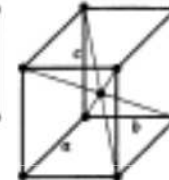
Tetragonal Simples (P)



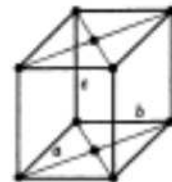
Tetragonal de Corpo Centrado (I)



Ortorrômbico Simples (P)



Ortorrômbico de Corpo Centrado (I)



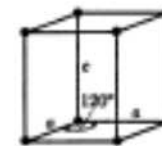
Ortorrômbico de Base Centrada (C)



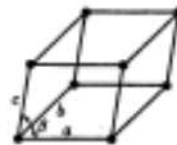
Ortorrômbico de Faces Centradas (F)



Romboédrico (R)



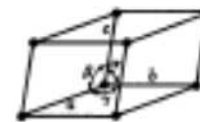
Hexagonal (P)



Monoclínico Simples (P)

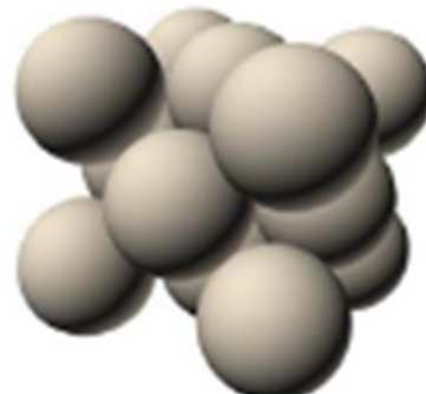
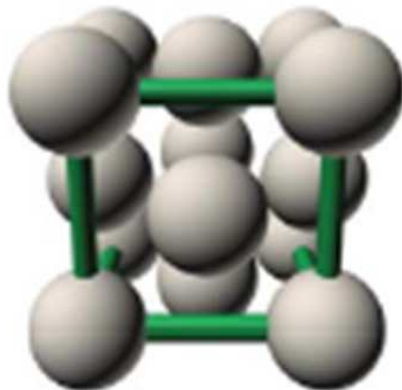
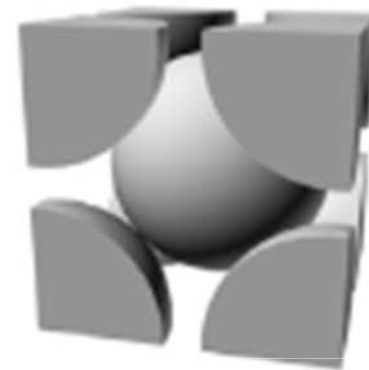
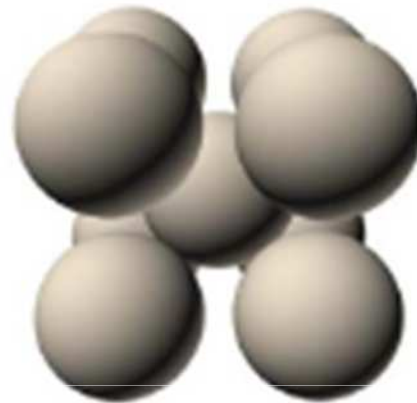
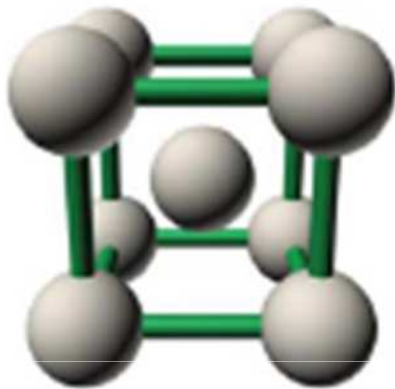


Monoclínico de Base Centrada (C)

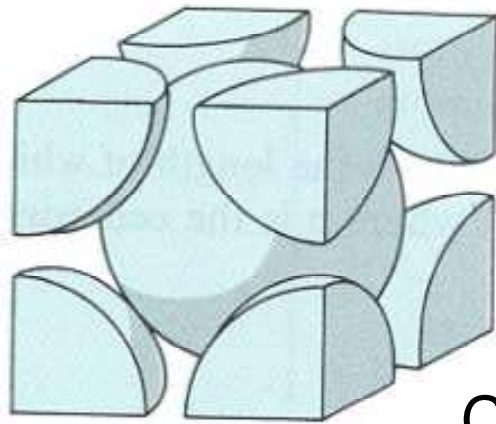


Triclínico (P)

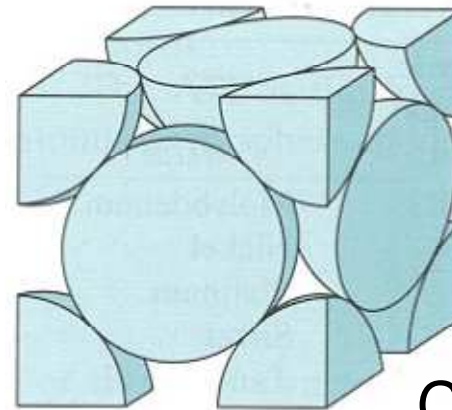
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CCC



CFC

Estrutura	Metal
CFC	Ag, Al, Au, Ca, Co- β , Cu, Fe- γ , Ni, Pb, Pd, Pt, Rh, Sr
HC	Be, Cd, Co- α , Hf- α , Mg, Os, Re, Ru, Ti- α , Y, Zn, Zr- α
CCC	Ba, Cr, Cs, Fe- α , Fe- δ , Hf- β , K, Li, Mo, Na, Nb, Rb, Ta, Ti- β , V, W, Zr- β

Exercício

1) Calcular a massa específica (g/cm^3) do Alumínio.

Dados:

estrutura = CFC

raio atômico = 0,143 nm

peso atômico = 26,98 u.m.a.

Exercício

2) Calcular a massa específica (g/cm^3) do Ferro.

Dados:

estrutura = CCC

raio atômico = 0,124 nm

peso atômico = 55,85 u.m.a.

Exercício

3) Calcular a massa específica (g/cm^3) do Ouro.

Dados:

estrutura = CFC

raio atômico = 0,144 nm

peso atômico = 196,97 u.m.a.

Exercício

4) Calcular a massa específica (g/cm^3) do Nióbio.

Dados:

estrutura = CCC

raio atômico = 0,143 nm

peso atômico = 92,91 u.m.a.