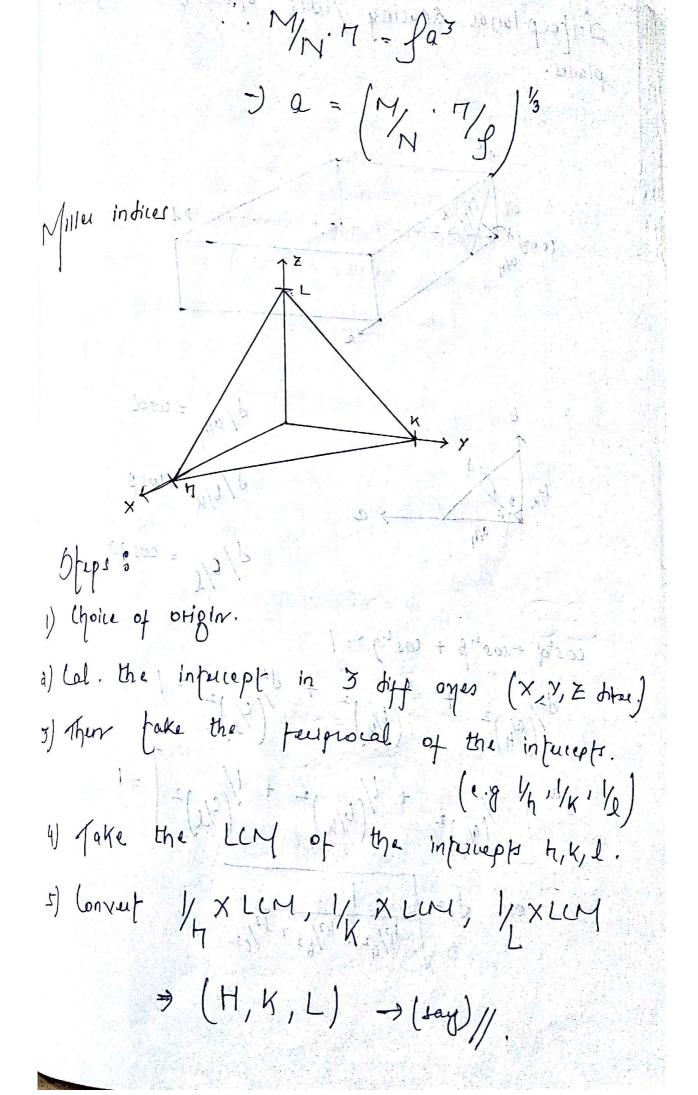
31 27: 4 types of Bravias Patrices. 37 - 4 cys -> 5 topos 37 - 7 cys -> 14 types. Co-ordination No: Equidistant Measest neighbour lo a parpicular Relation blus atomic tatius and lattice const. Simple subic : dr=a 2 C 100 41 = 53a 8= \3/40 = If there is a good the to only init (ill

Afonic facking fraction Vol. of total 70. of atoms inside Vol. of writ cell.  $5L: \frac{4}{3} \times \left(\frac{4}{3}\right)^3 = 52.3\%$ Jcc: 2.4/. x (53/9) = 68% FCC: 4x4/x (2/2) = 74% Relation blu fathice const. and the density of the Material. l.c = a f= devity Vo/ = 93 Man of unit cell = fax If M is Molecular weight then Man of one afom M/N; N = AVB 70. If there is 7 no. of eff atoms in unit cell then man of unit cell = MN.7

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Interplana spacing / dist blue two adjacent planes (000) d/a/h = word 8/6/K = 105B d/6/0 = cos 2) (Hoirs of shop) (1 cos'd + cos' p + cos' 2)2/ 12/ (2/h) 2 + d2/2 = 1 3 d . la) (8  $\int_{a}^{a} \left[ \frac{1}{(9h)^{2}} + \frac{1}{(6/k)^{2}} + \frac{1}{(c/k)^{2}} \right] = 1$ 1) 1) XOF d = \( \frac{1}{h^2/a^2 + k^2/b^2 + l^2/c^2} \) \( \frac{1}{h^2/a^2 + k^2/b^2 + l^2/c^2} \) (Un) - (1, 4, H) +

