

[n; -> u; refer day 2] > Peroblems: 1) 6-fold: $\theta = \frac{2\pi}{6} = \frac{\pi}{3}$ $D_{11} = S_{11} \cos \theta + \left(\frac{E_{11}}{0} \frac{n_{1}}{0} + \frac{E_{112}n_{2} + E_{113}}{0} \frac{n_{3}}{0} \right) \sin \theta + \left(1 - \cos \theta \right) n_{1}^{2}$ $D = \begin{bmatrix} \sqrt{2} & -\frac{\sqrt{3}}{2} & 0 \\ \frac{\sqrt{3}}{2} & \sqrt{2} & 0 \end{bmatrix}$ 2) 5-fold rotation axis is inconsistent with the definition of a lattice. Bravais lettices: 20 lattices on nets Creneral consideration which can be extended to 3D 14 Bravais Lattices -> Unit cell: That construct which will Irashed

-uce the lattice upon the action of symmetry elements. we could have chosen just one atom as Unit cell, but it leaves space on translation. . Space left 20 Bravois Nets: mP -> monoclinic Primitive of -> sorthic hP -> hexagonal <u>))</u> tp-> tothagonal " oC _ Orthic centred

