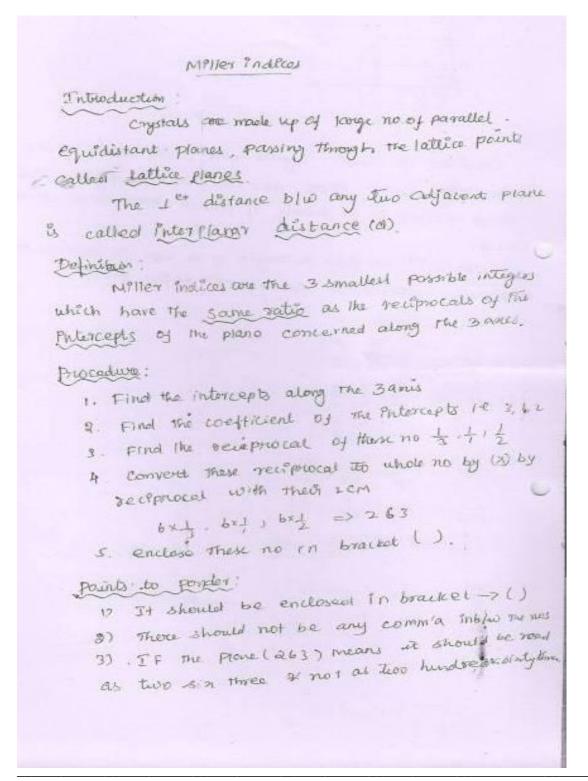
SNS COLLEGE OF TECHNOLOGY



(AN AUTONOMOUS INSTITUTION)
SNS Kalvi Nagar,Saravanampatti Post
Coimbatore - 641 035



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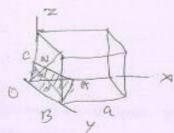
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a sparing in cubic bottone

d spacing is the distance blue any two successive plane =



Consider a Cubic cyptal with a as length of the Cube edge is a plane ABC as shown in figure. This Plane belong to a family of planes whose purples indicest

The 1er ON from the origin of the cube to the plane these represents interplanant sparing (d) of this family.

of along
$$ox = \alpha'$$
or along $oy = \beta'$
or along $oz = \gamma'$

$$\cos a' = \frac{\partial n}{\partial A} \div \frac{a}{\partial h} = \frac{\partial h}{\partial a}$$

$$\cos \beta' = \frac{ON}{OB} = \frac{d}{alh} = \frac{dk}{a}$$

$$\cos dt = \frac{\partial N}{\partial c} = \frac{d}{\partial u} = \frac{dL}{a}$$

$$\cos^2 x' + \cos^2 \beta' + \cos^2 x' = 1$$

$$d = \frac{a}{\sqrt{h^2 + k^2 + 1^2}}$$