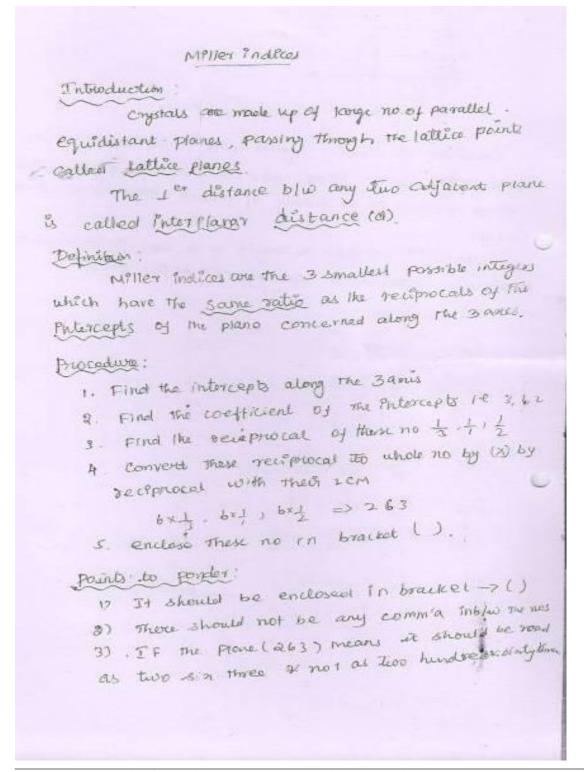
A CONTRACTOR OF THE PROPERTY O

SNS COLLEGE OF TECHNOLOGY



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

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai Accredited by NBA & accredited by NAAC with 'A+' Grade, Recognized by UGC

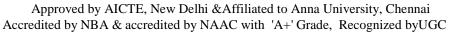


SNS COLLEGE OF TECHNOLOGY



(AN AUTONOMOUS INSTITUTION)
SNS Kalvi Nagar,Saravanampatti Post

Coimbatore - 641 035

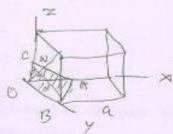




15

a spacing in cubic batters

d specing is the distance blue any two successive plane



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

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

OR along $OX = \alpha'$ OB along $OY = \beta'$ Oc along $OZ = \gamma'$

On: 08: 00 . 1 : 1 : 1

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

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

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

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