Photoelasticity - Easy to use; simple; relatively inexponsine -> Provide full field map of differences in principal stresses. - Both 2D and 3D possible. Material / Somple Destrictions Utransparent, non-crystalline marteral. 2) Optically isotropic when free of stress. V Create optical anisotropy when stressed; ". Temproony double retraction or biretrigues. Bioredingerer retroeting retroeting or optical property of having index that depends on propagation direction of light. Optical Anisatrophy . Lucich can be temporarily induced due to applied stress) - con be represented as index ellipsoid. 13 --- principal induces of retraction of the material at a point. Any radius can represent the direction of Light propagation through a point.

y can very slightly with & being transmitted (dispersion) > your = 1.0003 · lipuds > n=1.3 · 1420=1,33 , socias, 1=1.4-1.8 · Myloss = 1,5 . A = ougle of incidence. · B = angle of reflection of = angle of retroction $\rightarrow |\alpha = |\beta|$ - index of refraction of material 2 with respect to I. - if naterial I has (1) greater than material 2 (42) -NINO, 121KI Here exists a critical of de itor which of = 90, and no light is retracted. Total internal

Egn of an ellipse. Light exhibiting this behaviour is known as eliptically polarized. - 2 special cores Makes @ reduced to; [Ex+Ey2=02] - ectrementy

polarized with Duhar Mass phase Uttoreca (2) between Ex and Ey and $S = \frac{n\lambda}{2}, 1=0,1,2,--$. Ey= (ay) Ex or wearly polarized light. Reflection and Retraction -> So for light propagatty in tree space -> Interesting effects, however, when light interects with some physical material. redime, velocity would reduced. (W) · [= 1] . N= index of refraction of medium. . In goses , n is any slightly >1