Brewster's law

Brewster's law in electromagnetic wave propagation in based media. This law) state that the polarising angle or Brewster's angle (θ_p or θ_B) is the specific incidence angle where the reflected ray is polarized perpendicular to the plane of incidence.

When polarized light is incidence on a transparent dielectric boundary,
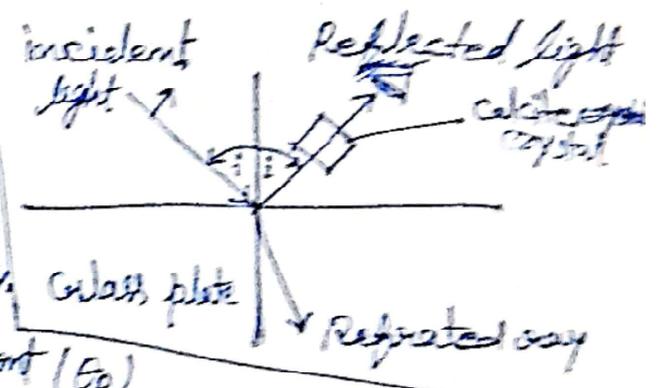
the angle of incident (θ_p) that produces perfectly plane polarized reflected light. Occurs when the tangent of the polarizing angle equal the refractive index of the medium $\left(\tan\theta_p = \dfrac{n_2}{n_1}\right)$. if the first medium is air. At this angle, the reflected and refracted waves are mutually perpendicular. The reflected ray is totally polarized perpendicular to the plane of incidence, while the transmitted ray is partially polarized. It is denoted by θ_p. The angle between the reflected ray and refracted ray is $90°$. If used in producing polarized light, sunglasses Brewster