

SISTEM KOMUNIKASI OPTIK

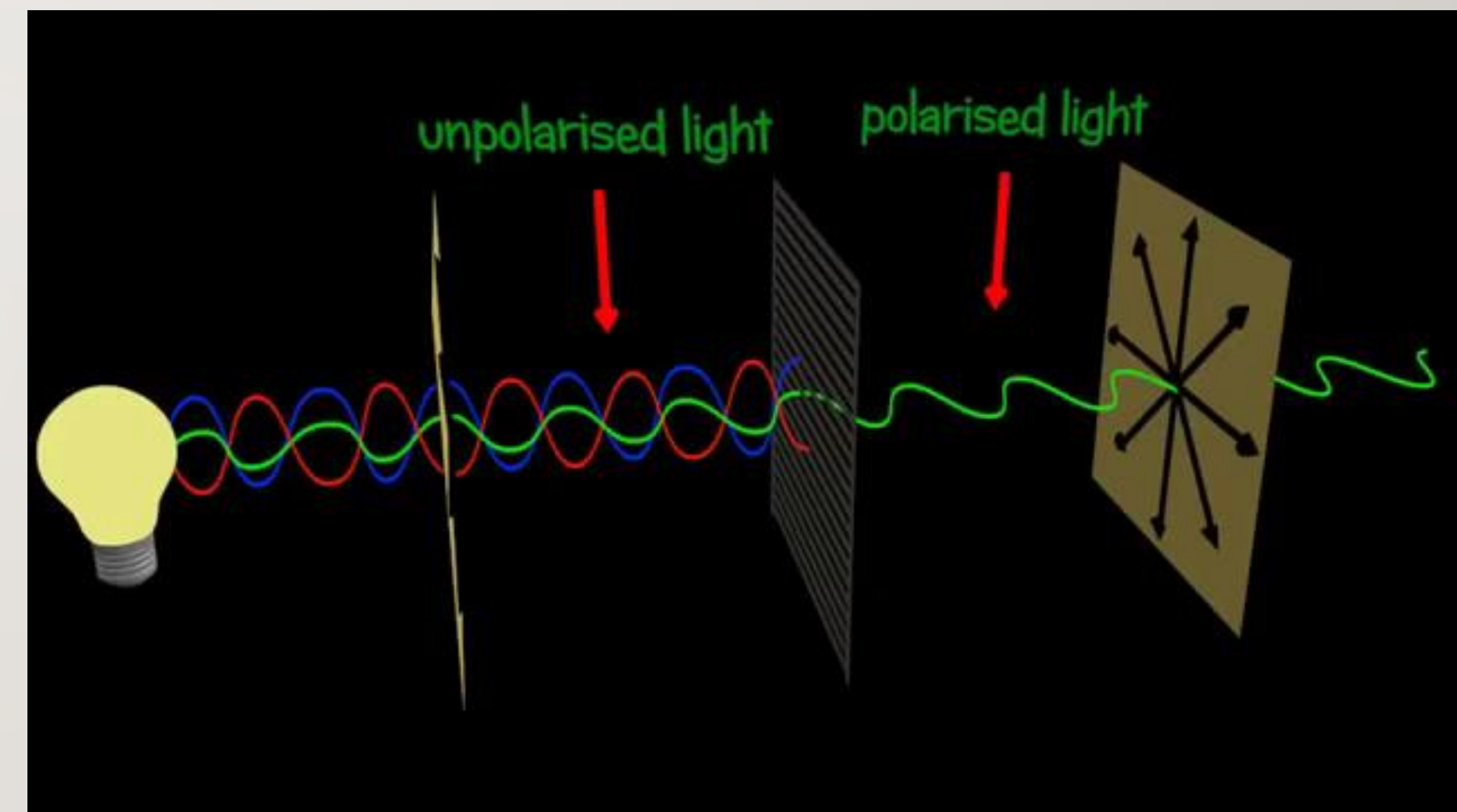
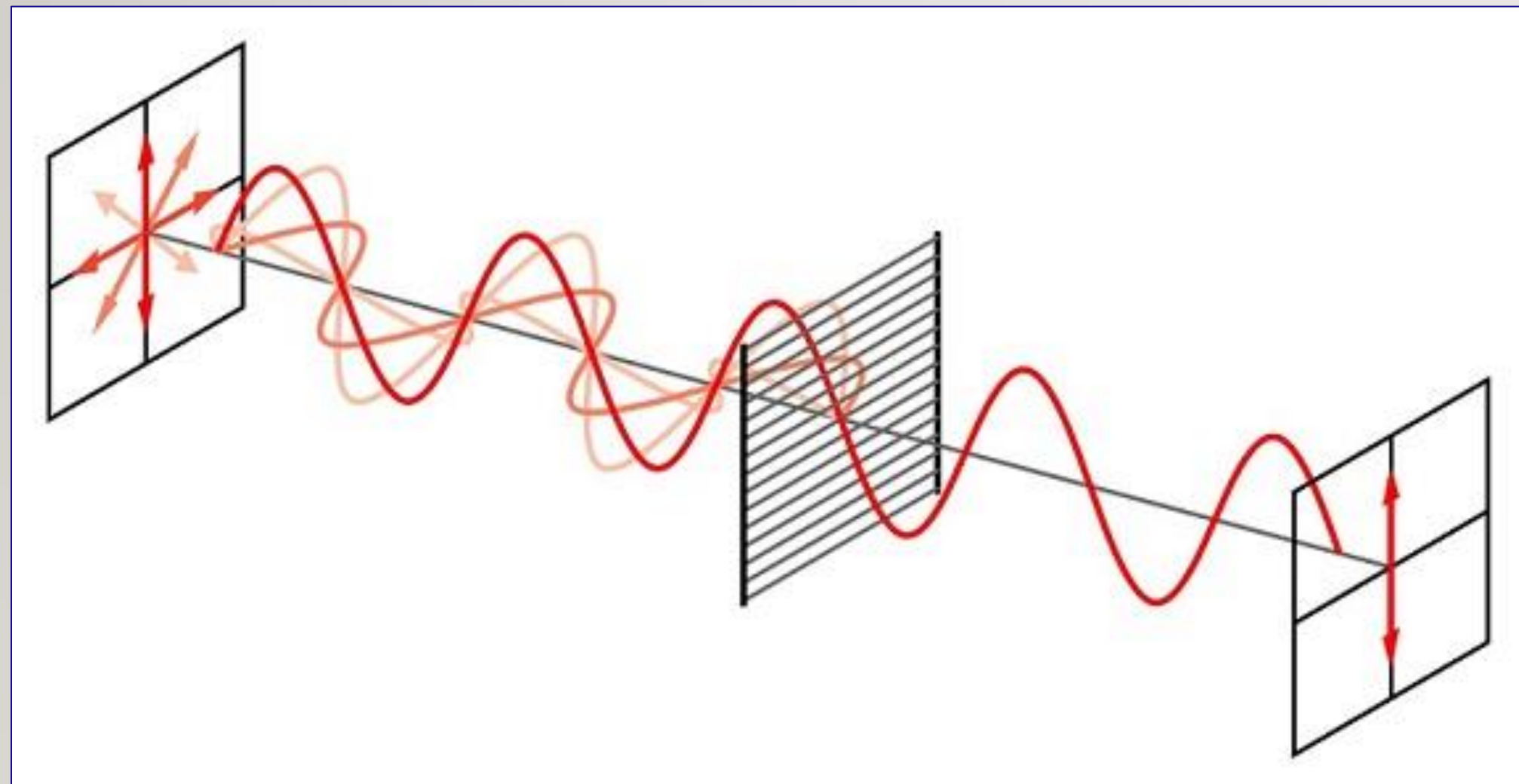
- **BAB 2**
- **PENYEBAB POLARISASI**
- **PADA GELOMBANG CAHAYA**



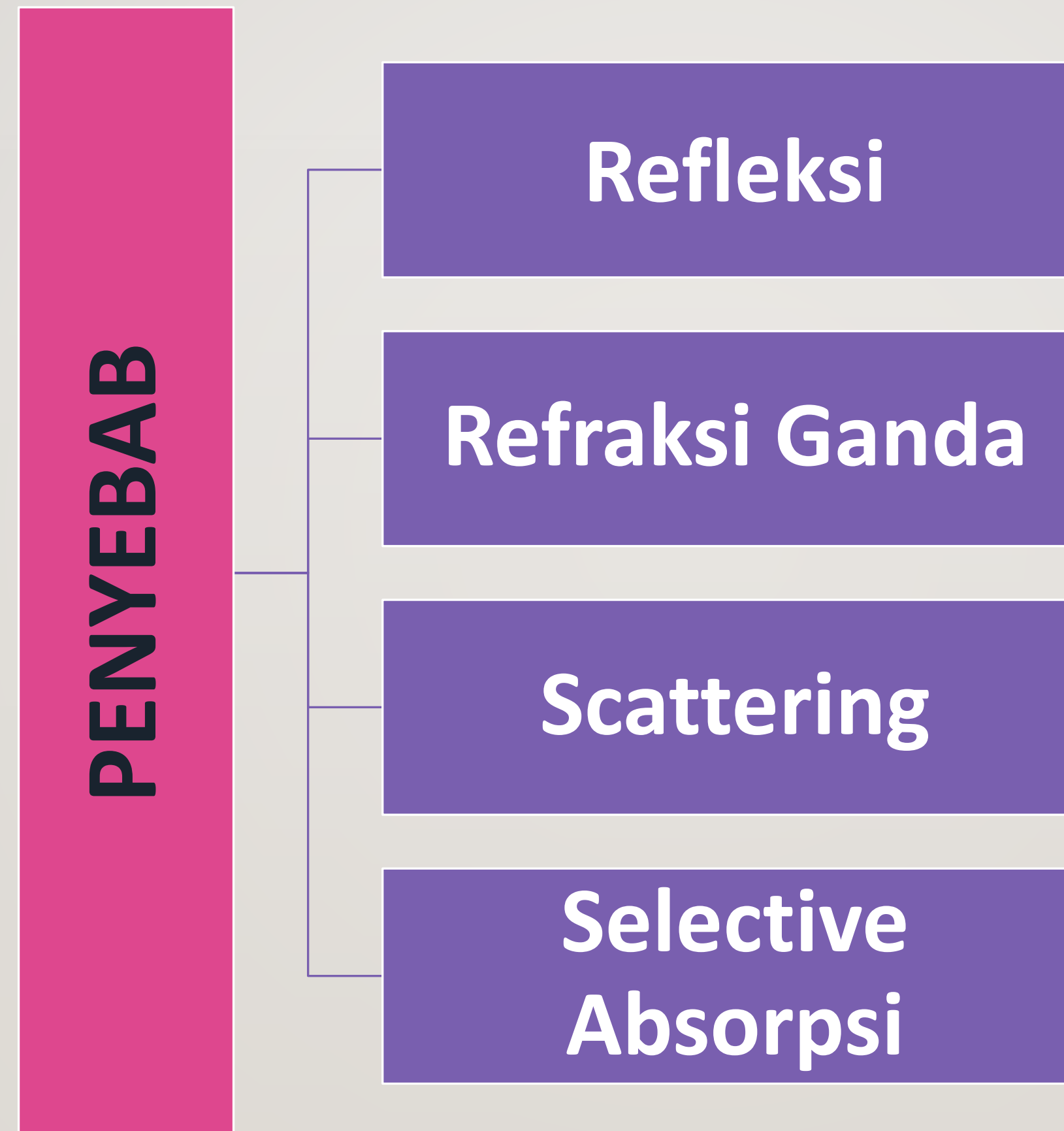
- **D3 Teknik Telekomunikasi – Fakultas Ilmu Terapan**

POLARISASI GELOMBANG CAHAYA

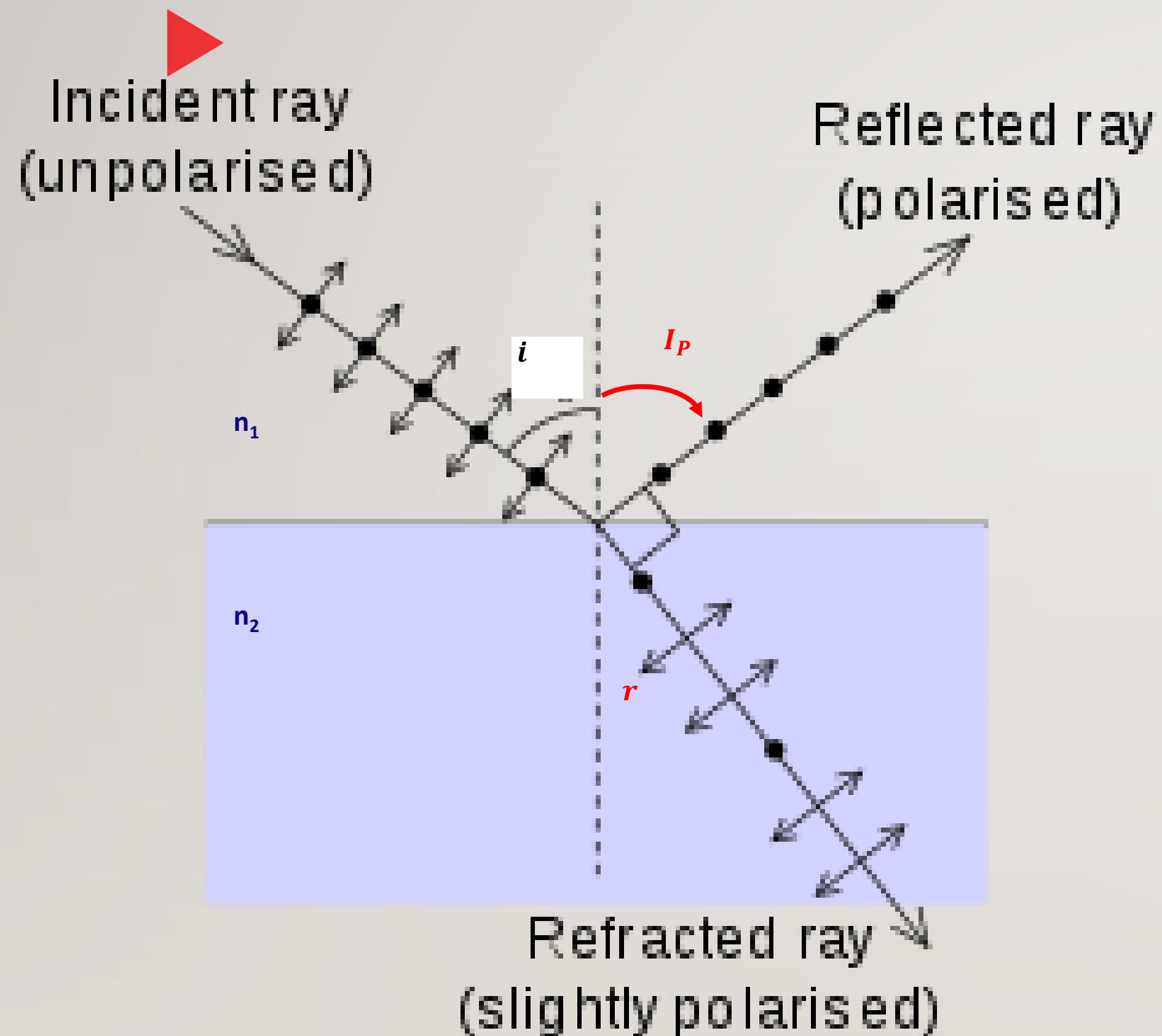
❖ Cahaya ditinjau sebagai gelombang Elektromagnetik



POLARISASI GELOMBANG CAHAYA



1. POLARISASI KARENA REFLEKSI



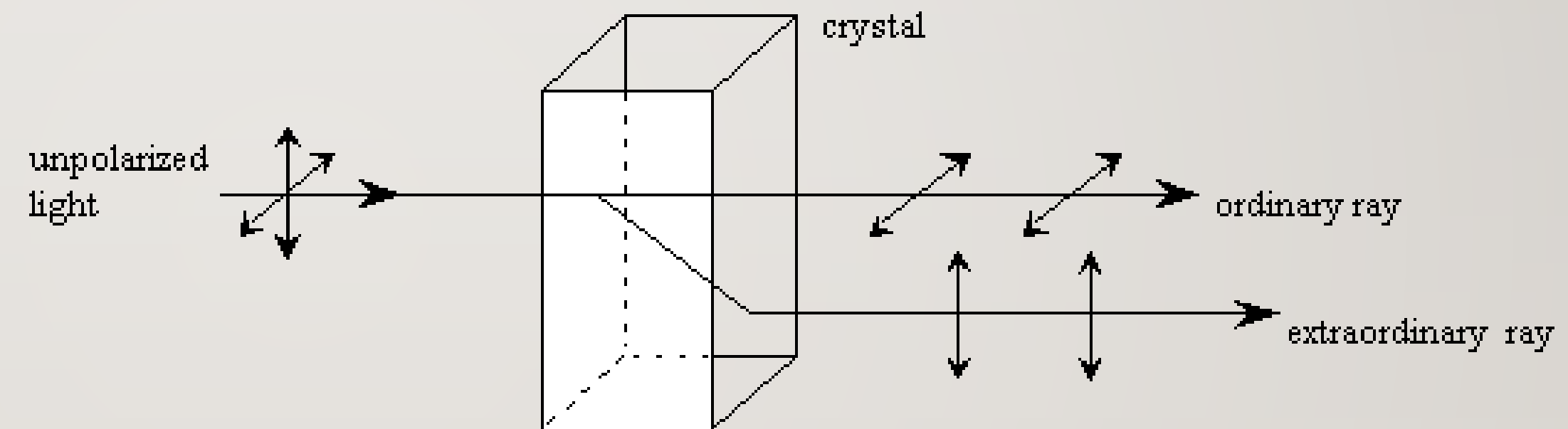
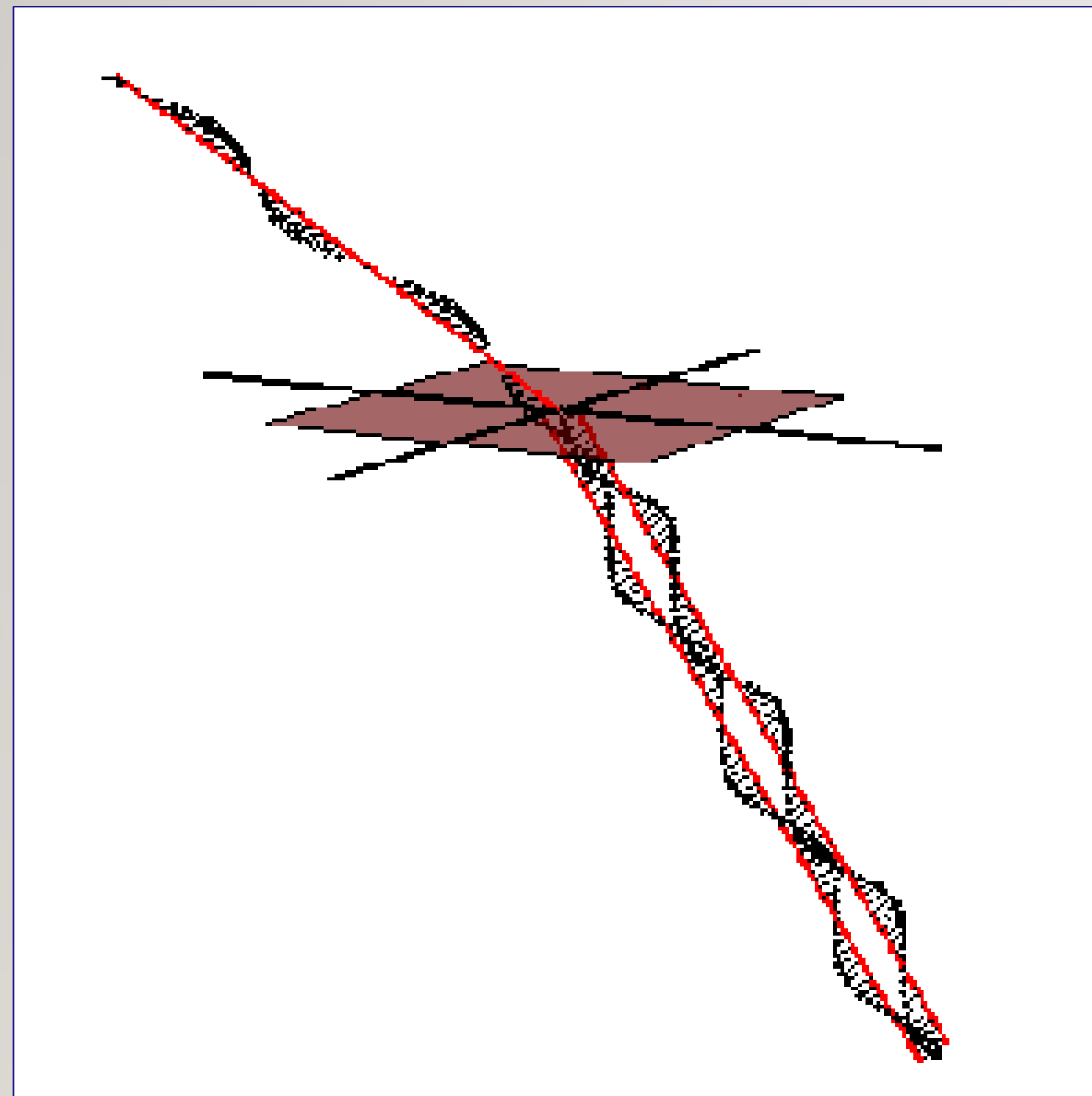
$$i_p + r = 90^\circ \text{ atau } r = 90^\circ - i_p$$

$$\frac{n_2}{n_1} = \frac{\sin i_p}{\sin r} = \frac{\sin i_p}{\sin(90^\circ - \sin i_p)} = \frac{\sin i_p}{\cos i_p} = \tan i_p$$

SUDUT BREWSTER

$$\frac{n_2}{n_1} = \tan i_p$$

2. POLARISASI KARENA REFRAKSI GANDA



Sumber Referensi :

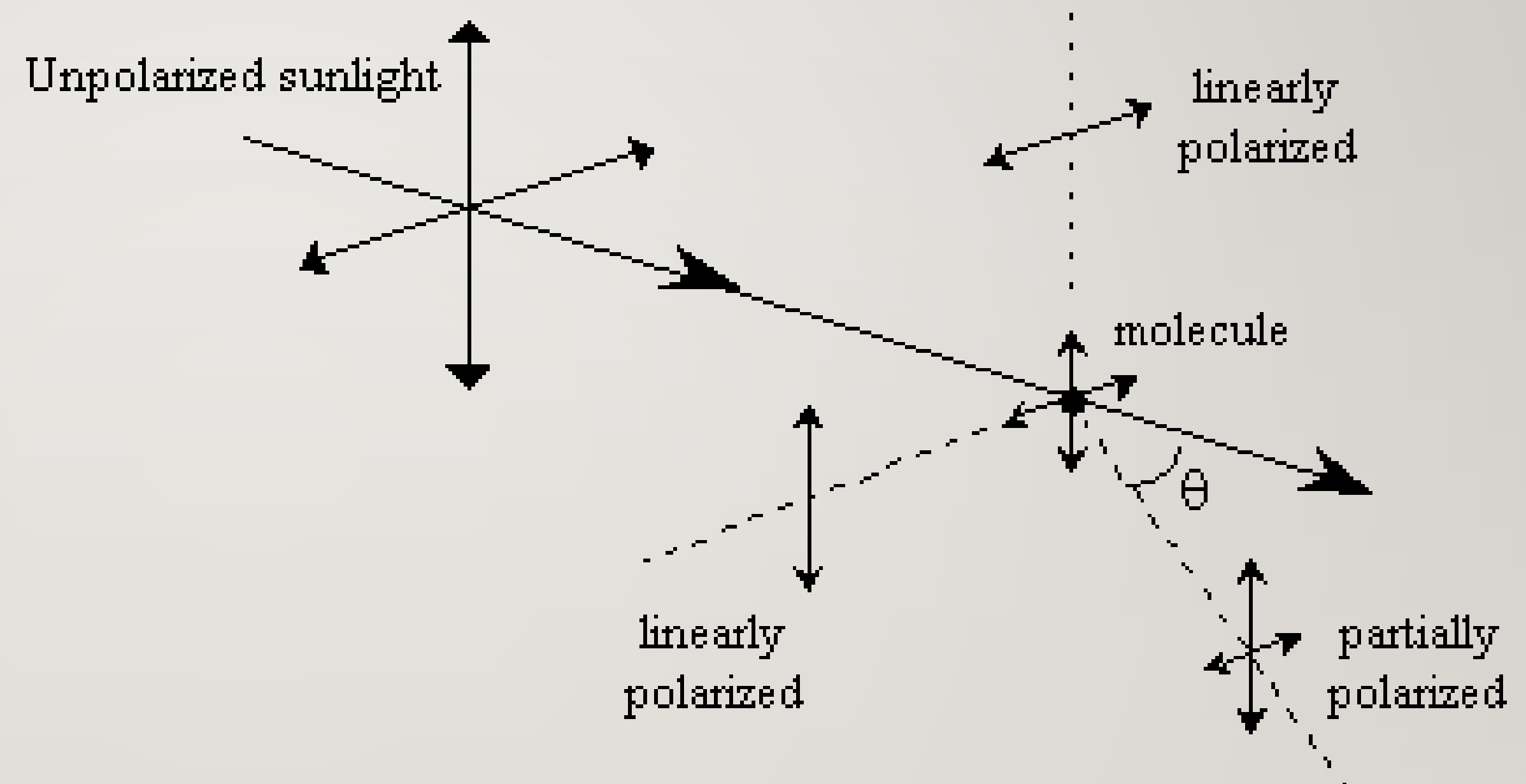
<https://physicsforus.wordpress.com/physics-3/physical-optics/a-light-polarization/>

http://www.science.smith.edu/geosciences/min_ib/Optics/Optics-3.pdf

https://sites.fas.harvard.edu/~scidem/LightOptics/DoubleRefraction/DoubleRefraction.html_bak

Bahaa E.A.Saleh and Malvin Carl Teich, 2007, *Fundamental of Photonics*, John Wiley & Sons

3. POLARISASI KARENA SCATTERING



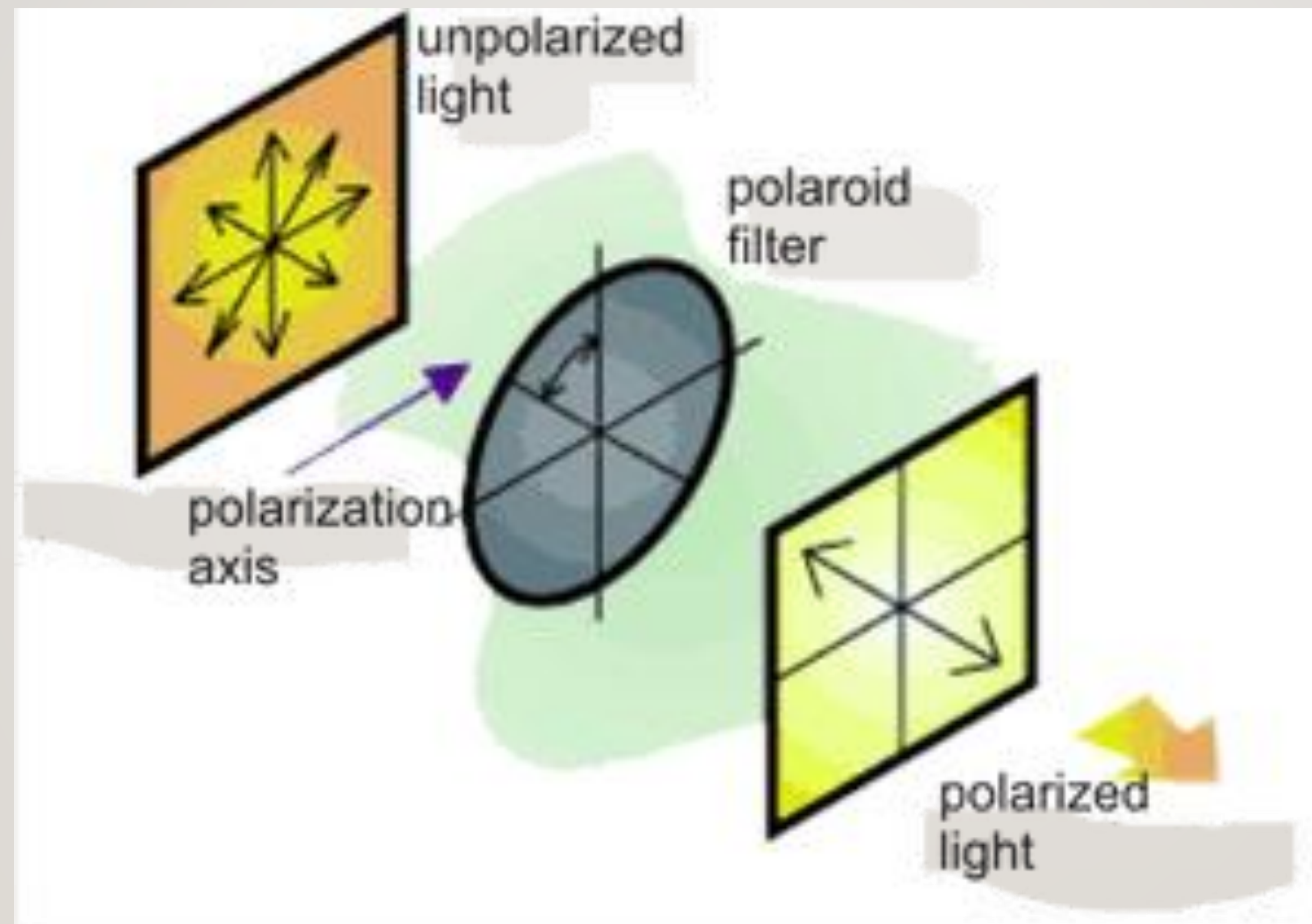
Sumber Referensi :

<https://sciencedemonstrations.fas.harvard.edu/presentations/polarization-scattering>

<https://physicsforus.wordpress.com/physics-3/physical-optics/a-light-polarization/>

Bahaa E.A.Saleh and Malvin Carl Teich, 2007, *Fundamental of Photonics*, John Wiley & Sons

4. POLARISASI KARENA SELECTIVE ABSORPSI



Sumber Referensi :

<https://physicsforus.wordpress.com/physics-3/physical-optics/a-light-polarization/>

http://www.science.smith.edu/geosciences/min_jb/Optics/Optics-3.pdf

Bahaa E.A.Saleh and Malvin Carl Teich, 2007, *Fundamental of Photonics*, John Wiley & Sons



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