

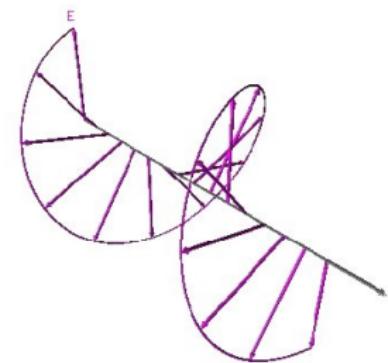
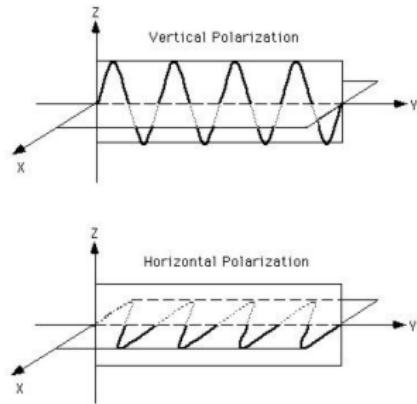
Polarização

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Universidade do Minho

Formas de polarização de uma onda transversal



Ondas polarizadas circularmente e elipticamente

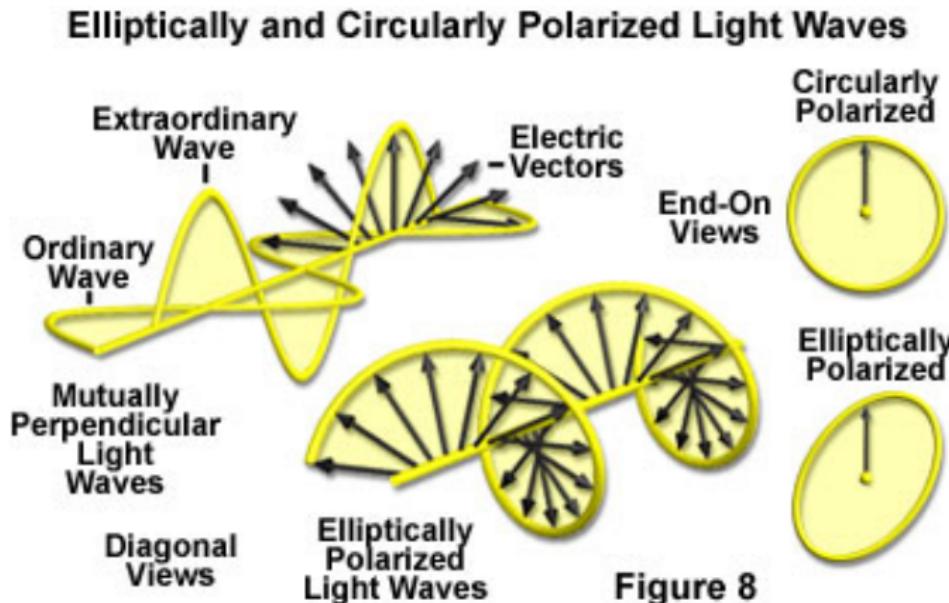
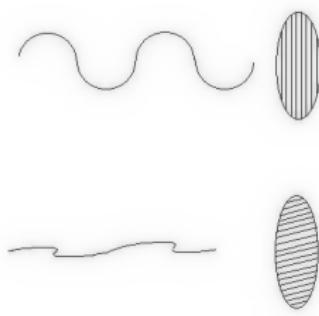


Figure 8

Polarizadores



Light Passing Through Crossed Polarizers

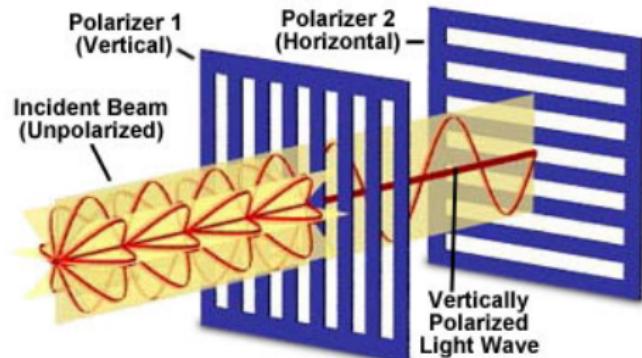


Figure 1

Para mudar a polarização:

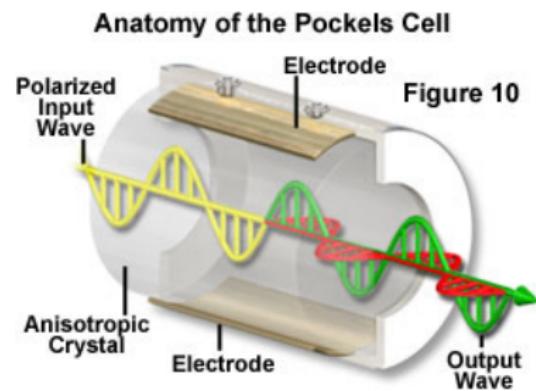
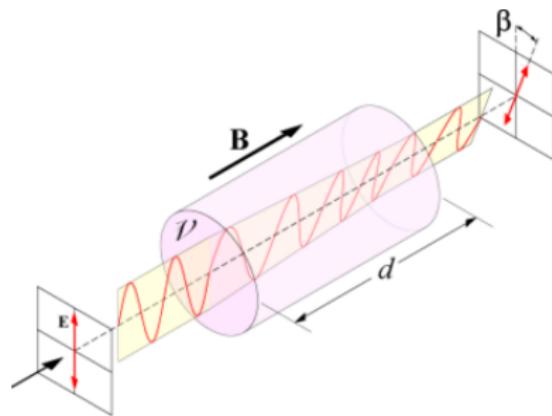
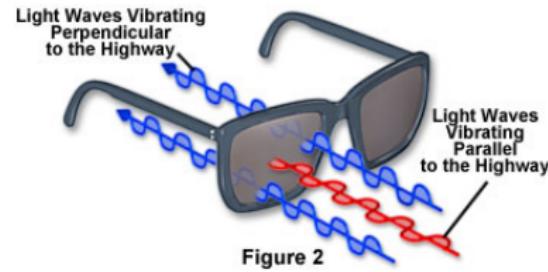


Figura: Célula de Faraday e célula de Pockels

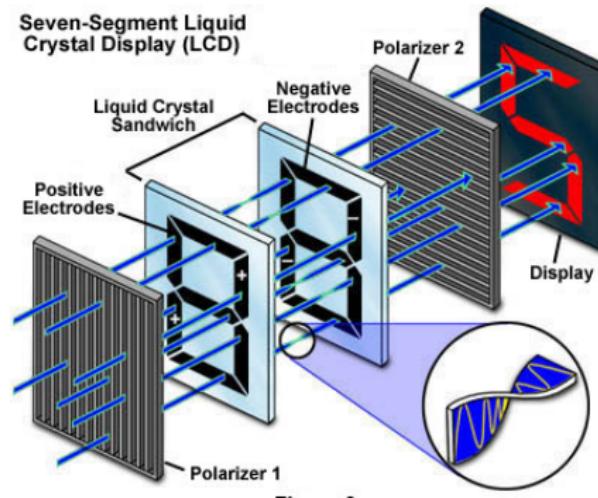
Aplicações



Aplicações: eliminar reflexos



Aplicações: LCD



Polarização da luz dispersada

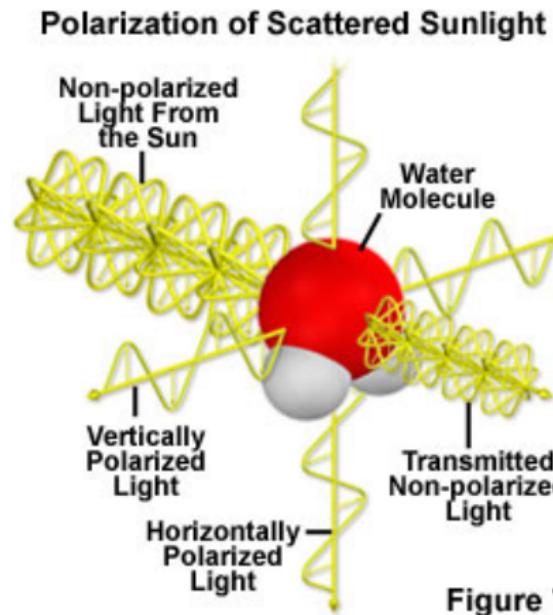
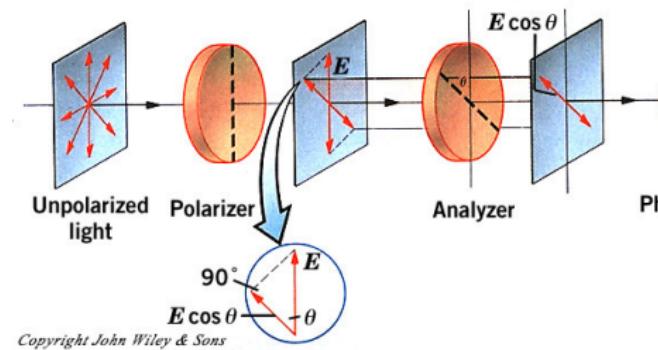


Figure 7

Lei de Malus

- ▶ dois polarizadores alinhados
- ▶ intensidade inicial é I_0
- ▶ rodamos um dos polarizadores de um ângulo θ
- ▶ a amplitude da onda será reduzida de $\cos \theta$
- ▶ intensidade à saída será:



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$$I(\theta) = I_0 \cos^2 \theta$$