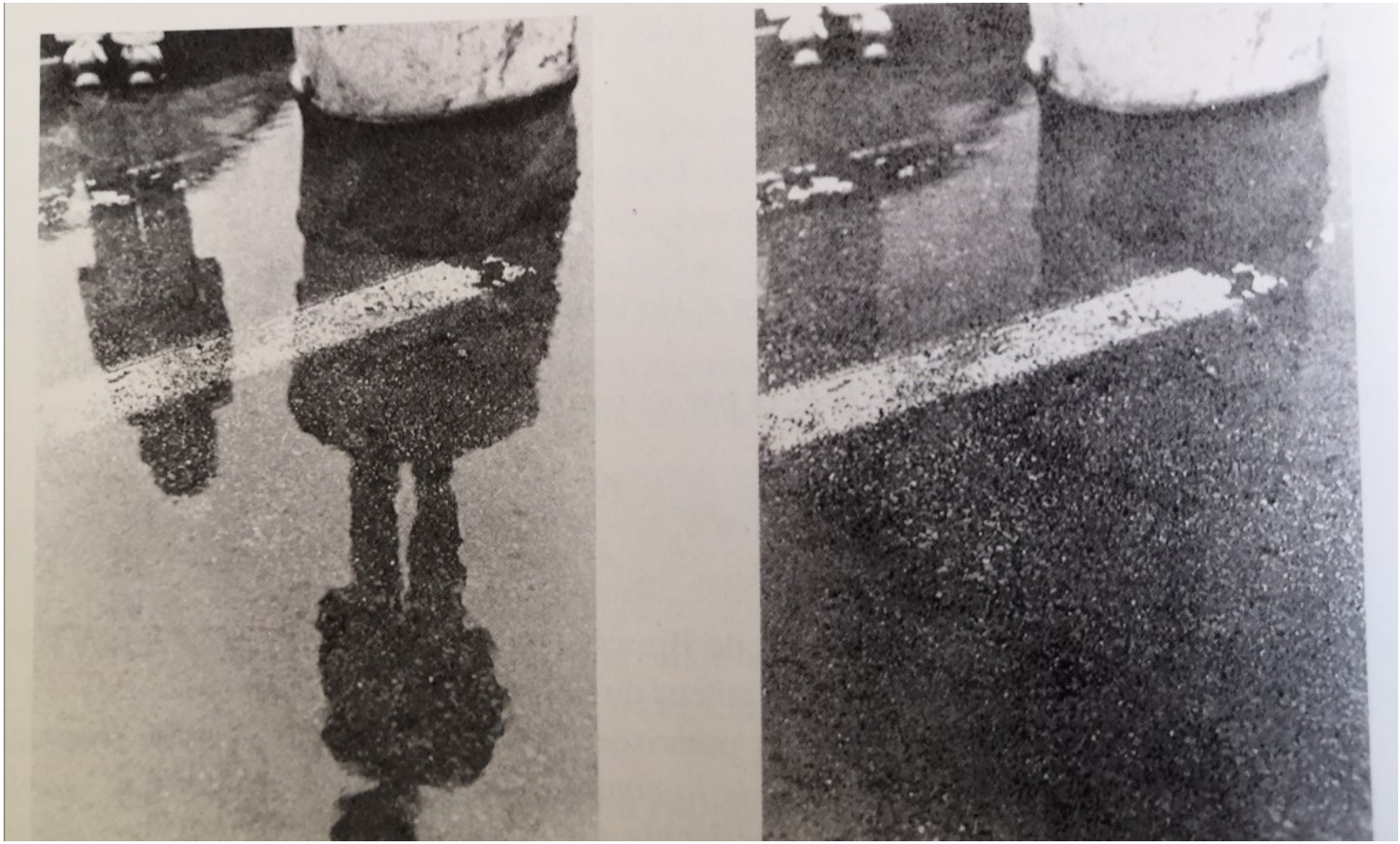
Phénomènes de polarisation optique (secondaire)

Élément imposé : photoélastimétrie

Lunettes à verre anti-reflets

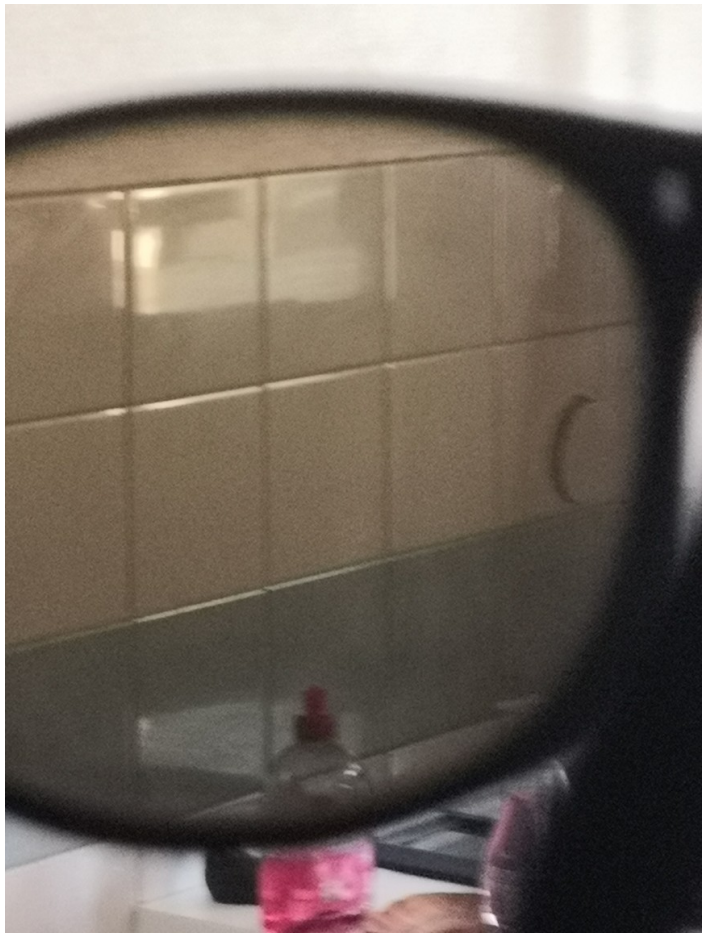


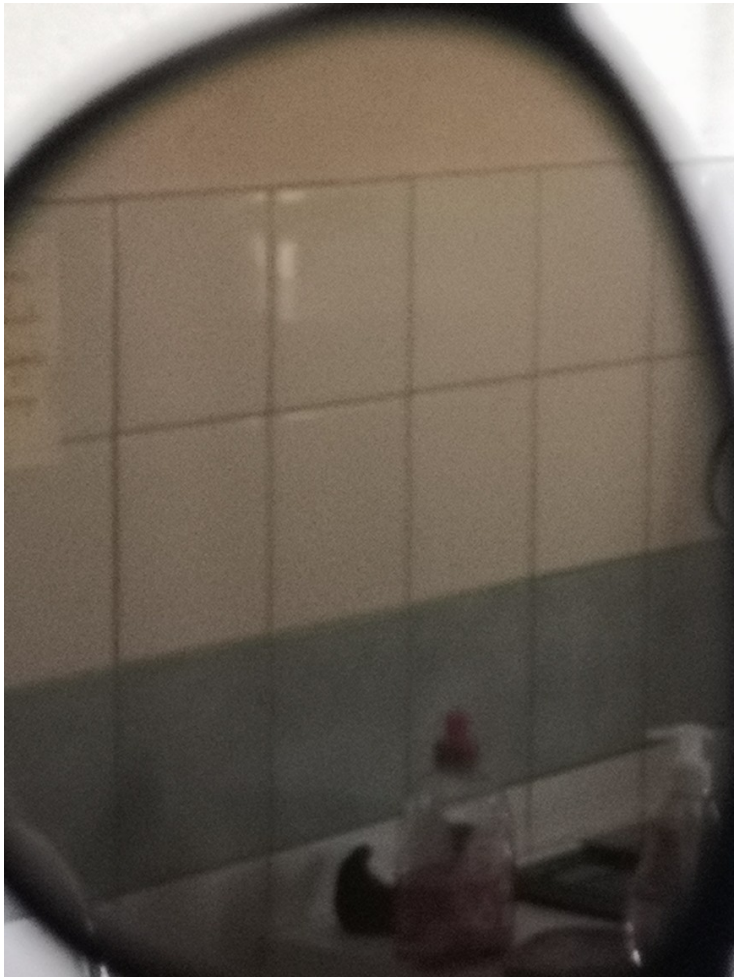
Sans lunettes

Avec lunettes

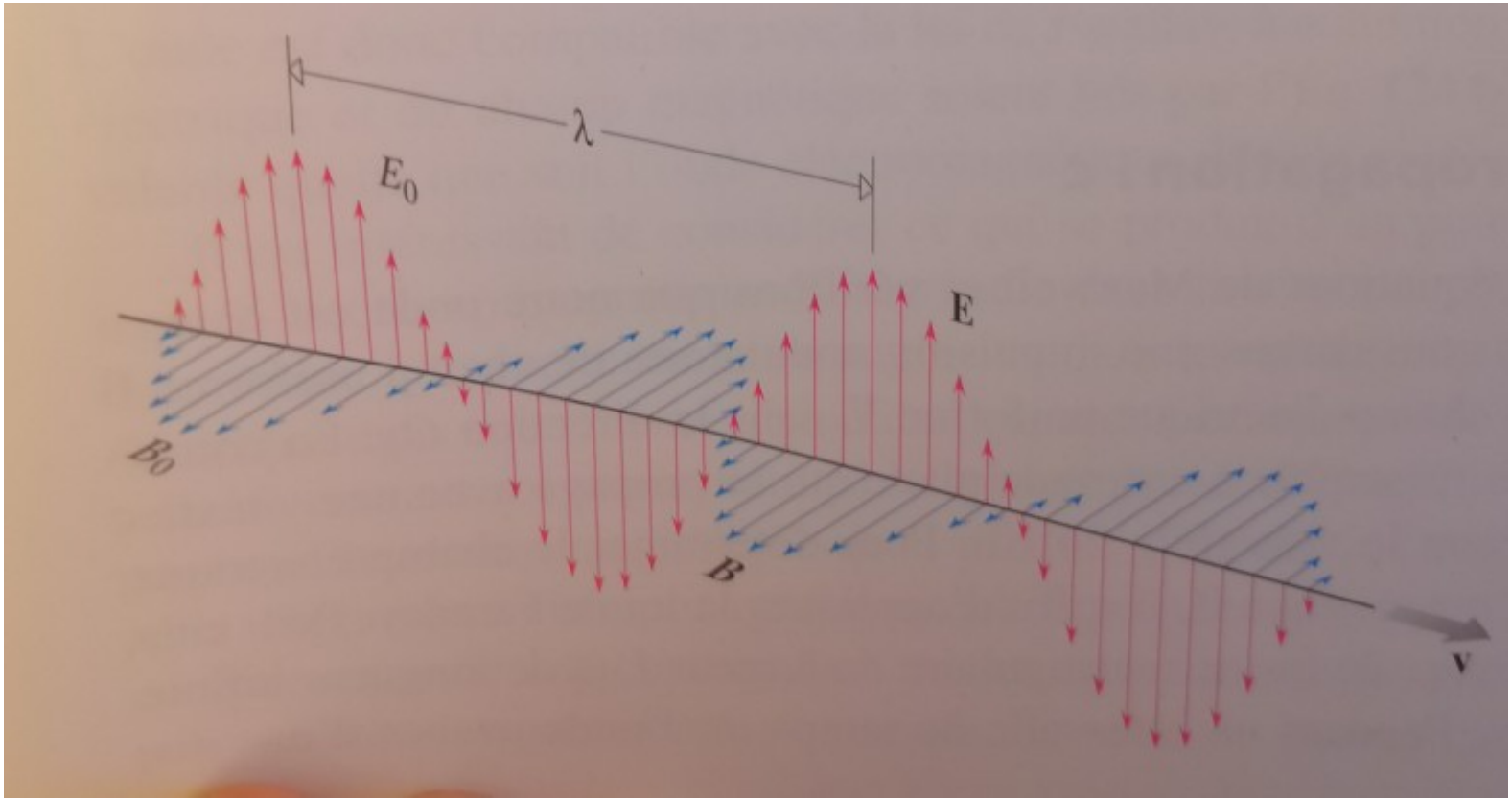
Hecht, p. 1020

Lunettes à verre anti-reflets



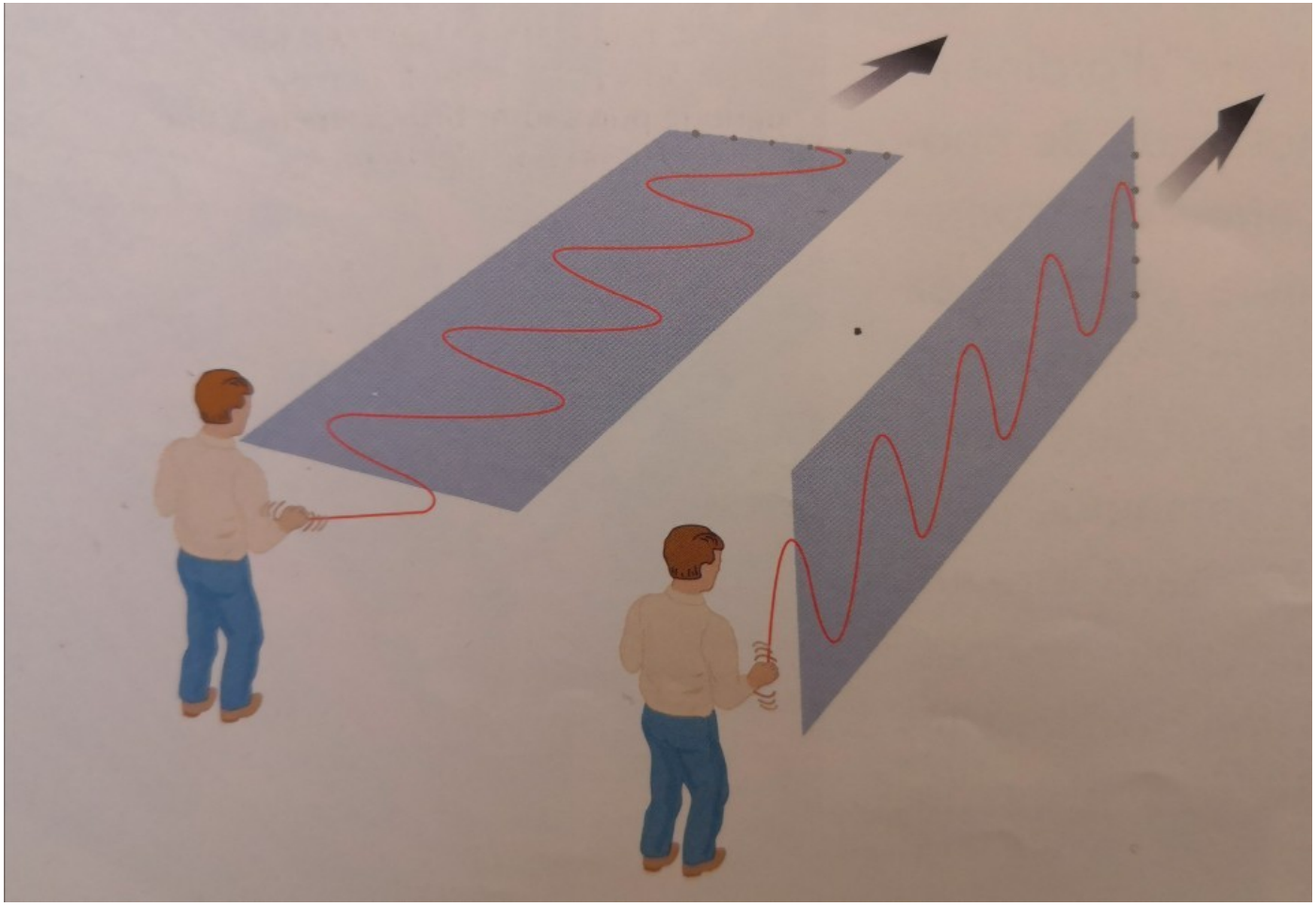


Nature de la lumière



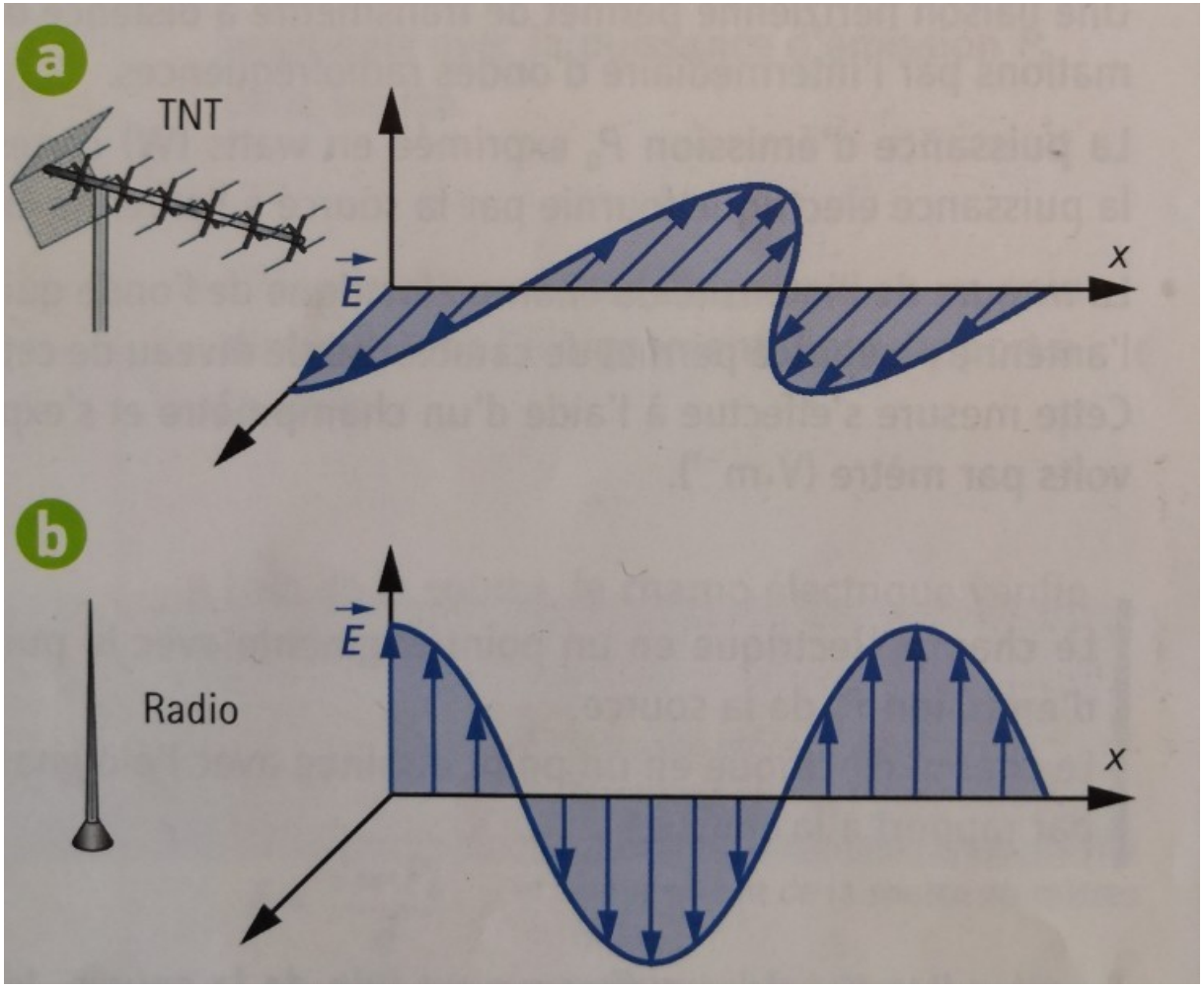
Hecht, p. 911

Analogie avec les ondes mécaniques



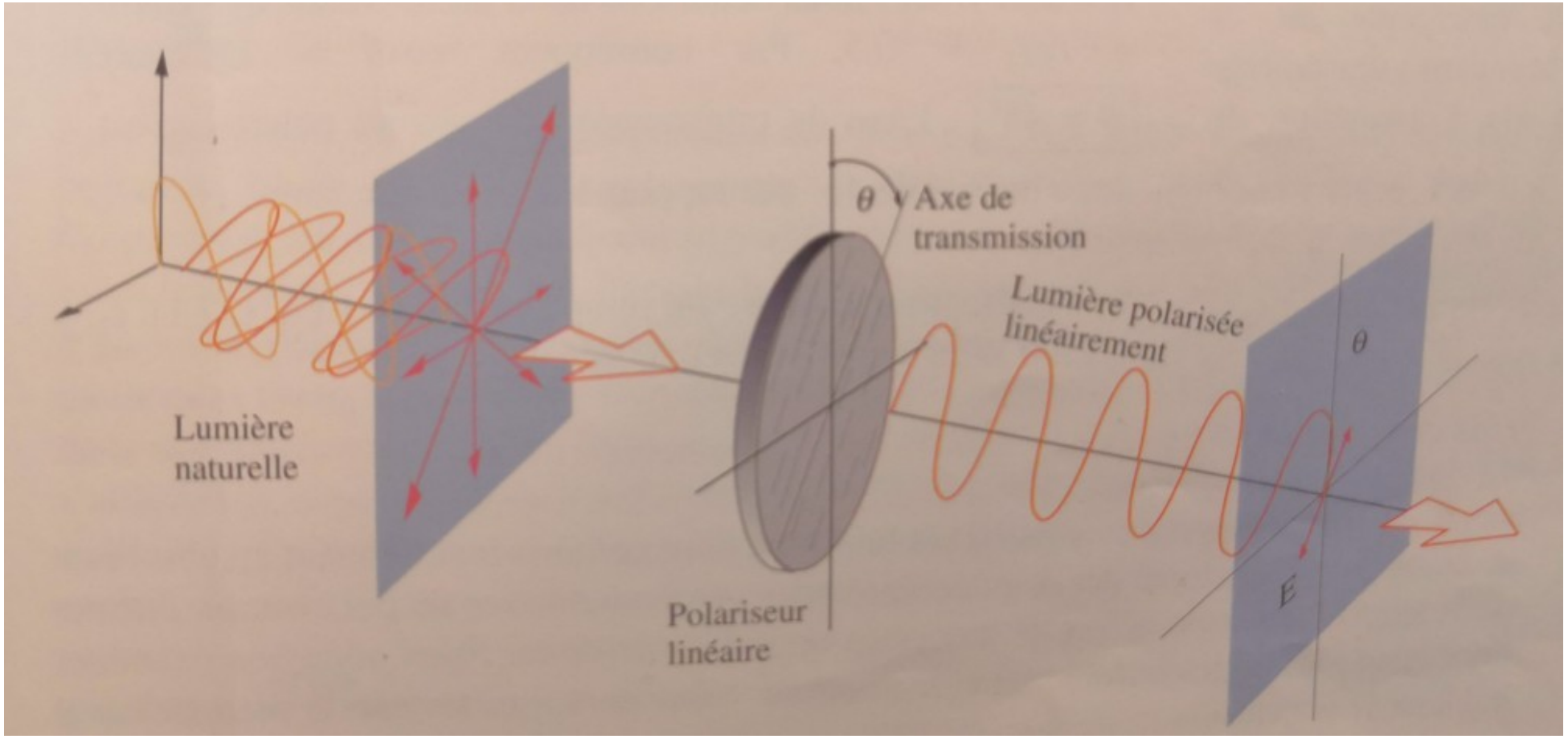
Hecht, p. 1012

Applications aux à la télécommunication



Nathan, T. STL, p. 55
programme 2012

Utilisation d’un polariseur

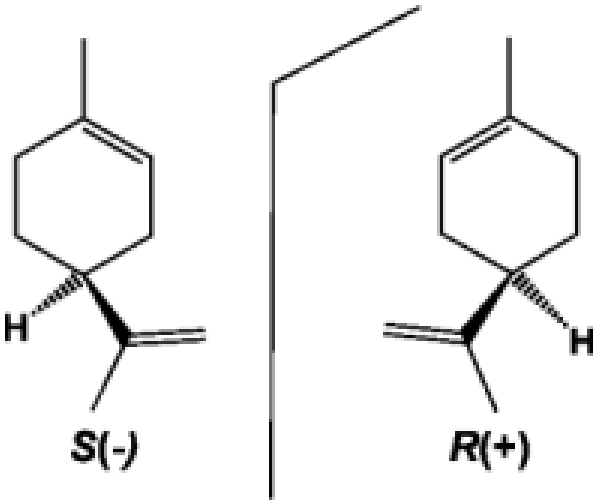


Hecht, p. 1015

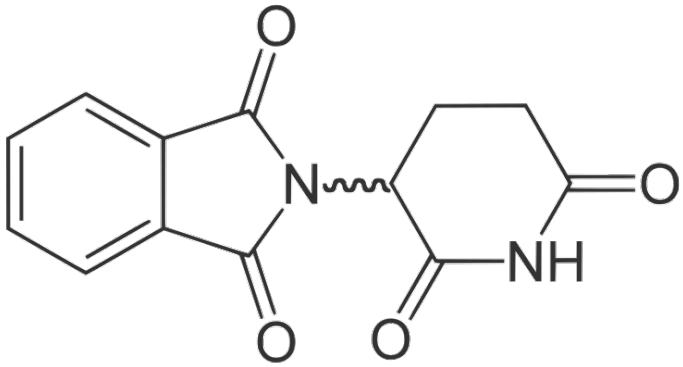
Principe de la polarimétrie

Animation ÉduMédia

Molécules chirales



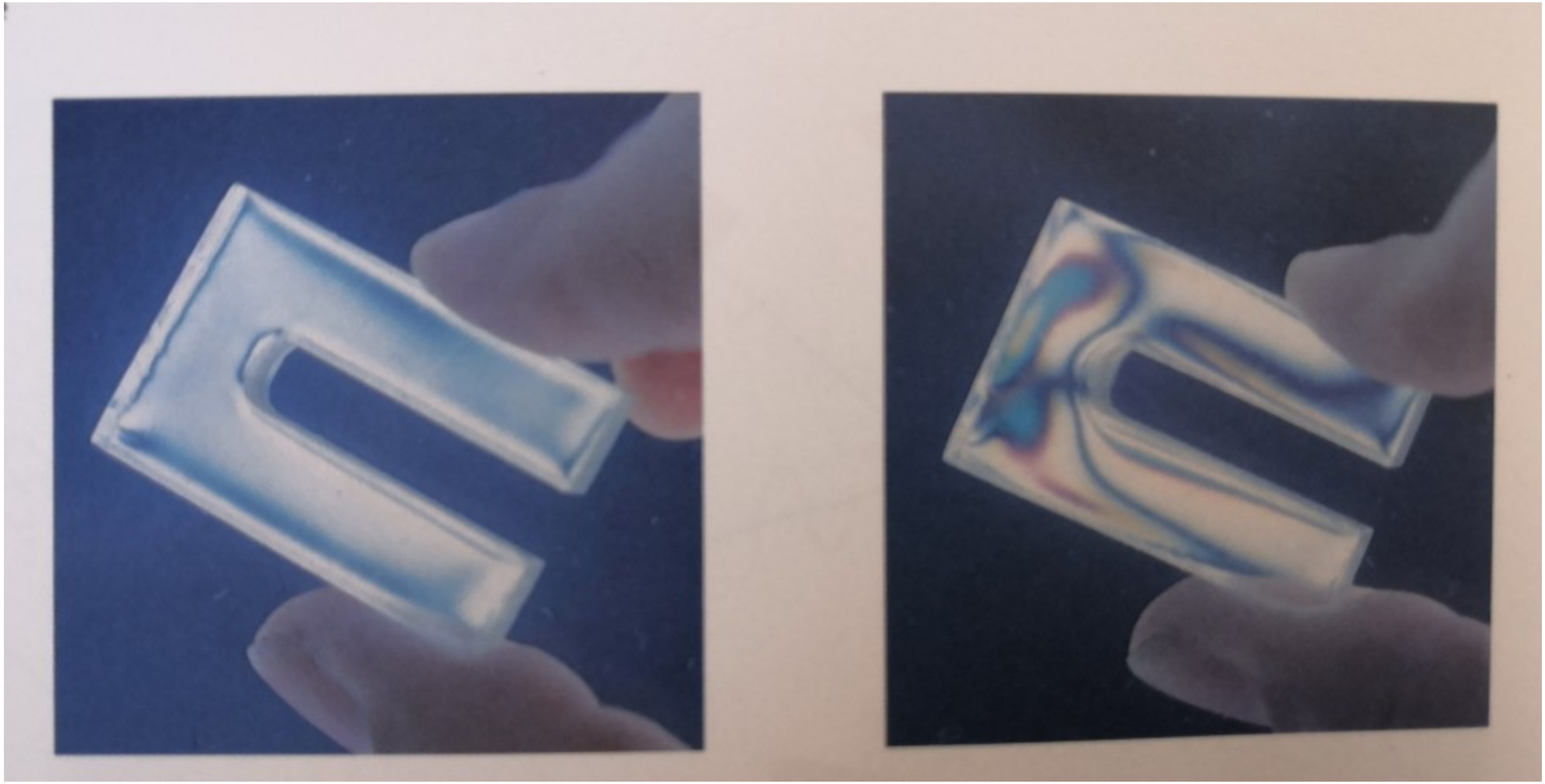
Le limonène :
Deux formes et deux odeurs différentes



Thalidomide :
Deux formes, deux effets sur le corps humain

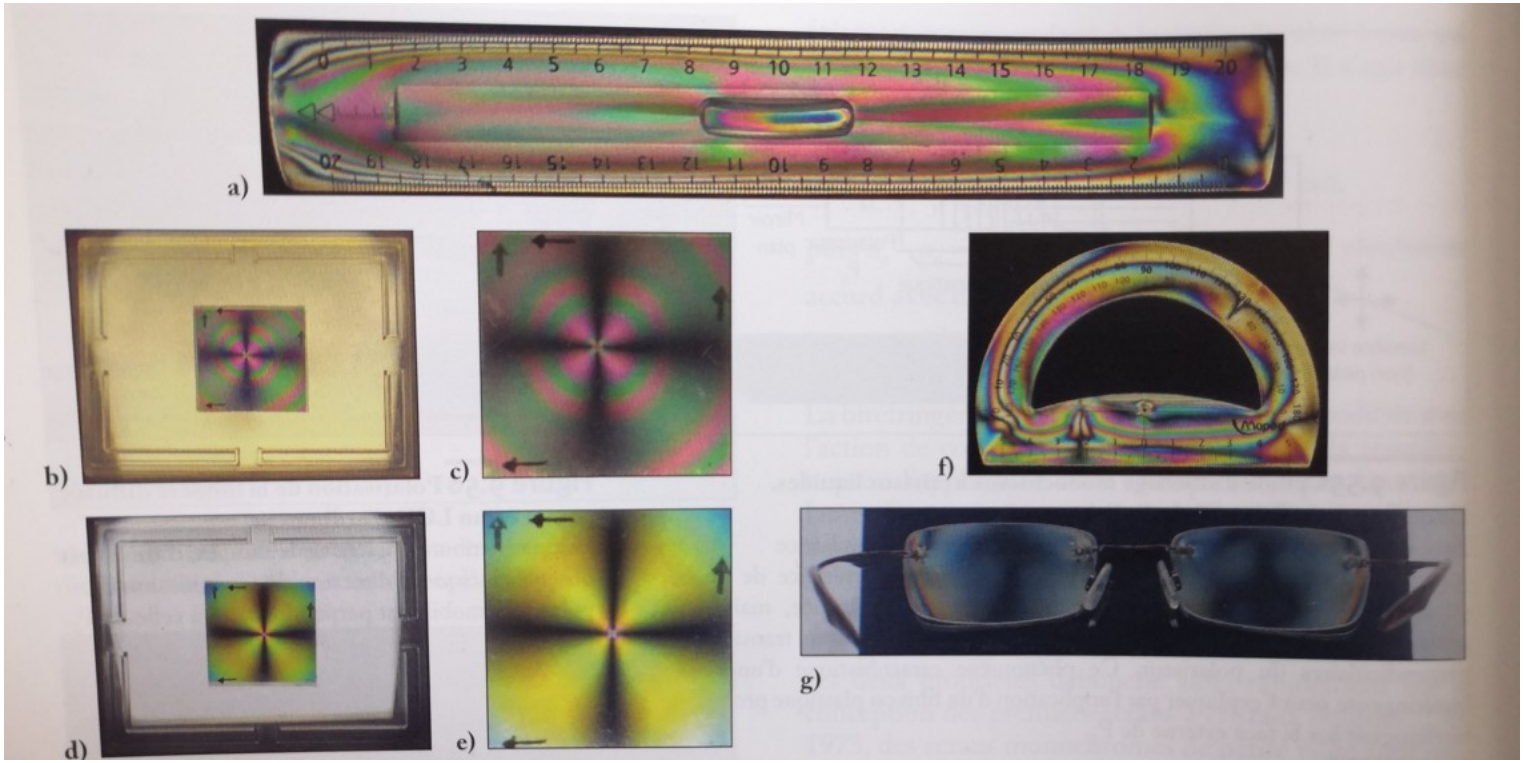
Détermination d’une concentration

Photoélasticimétrie : principe



Hecht, p. 1022

Photoélasticimétrie : étude



Houard, p. 288

Photoélasticimétrie : dans l'industrie…

Figure 1. PhotoStress coating being contoured to the surface of a vehicle water pump casting

Introduction to Stress Analysis by the PhotoStress® Method
Tech Note TN-702-2

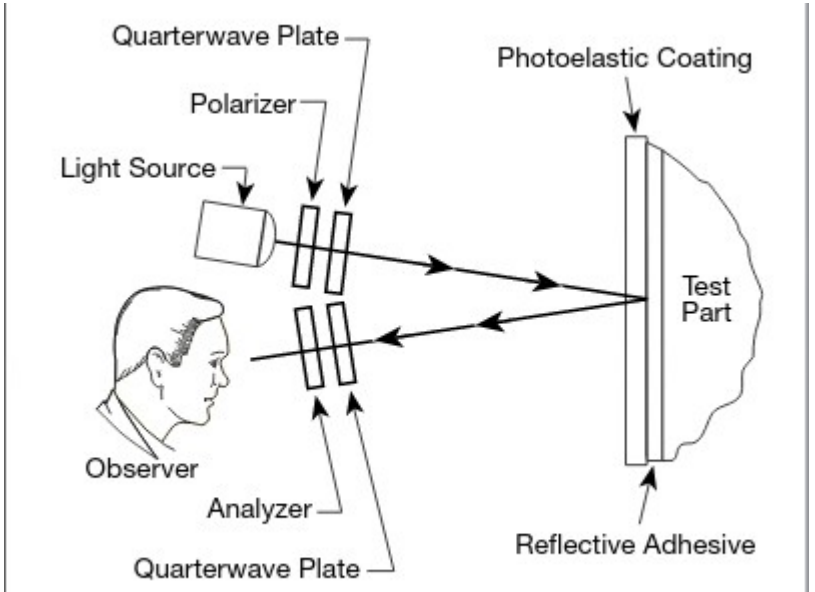
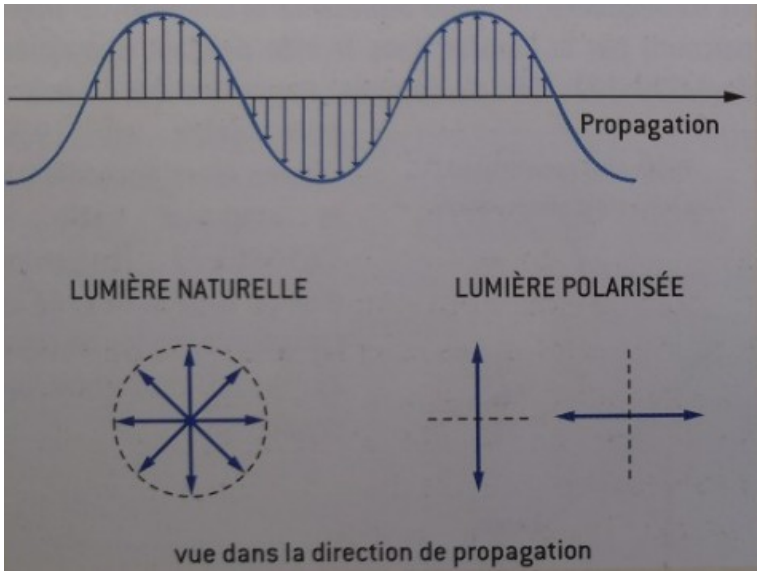
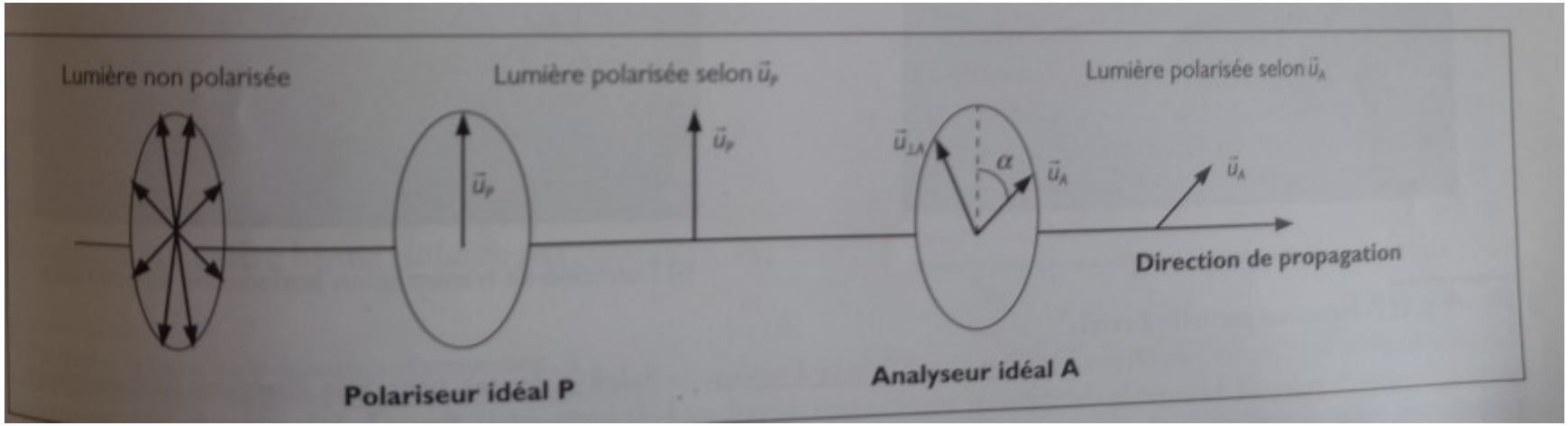


Figure 5. Schematic representation of reflection polariscope

Conclusion – Polarimétrie



Bernard Valeur, p. 29



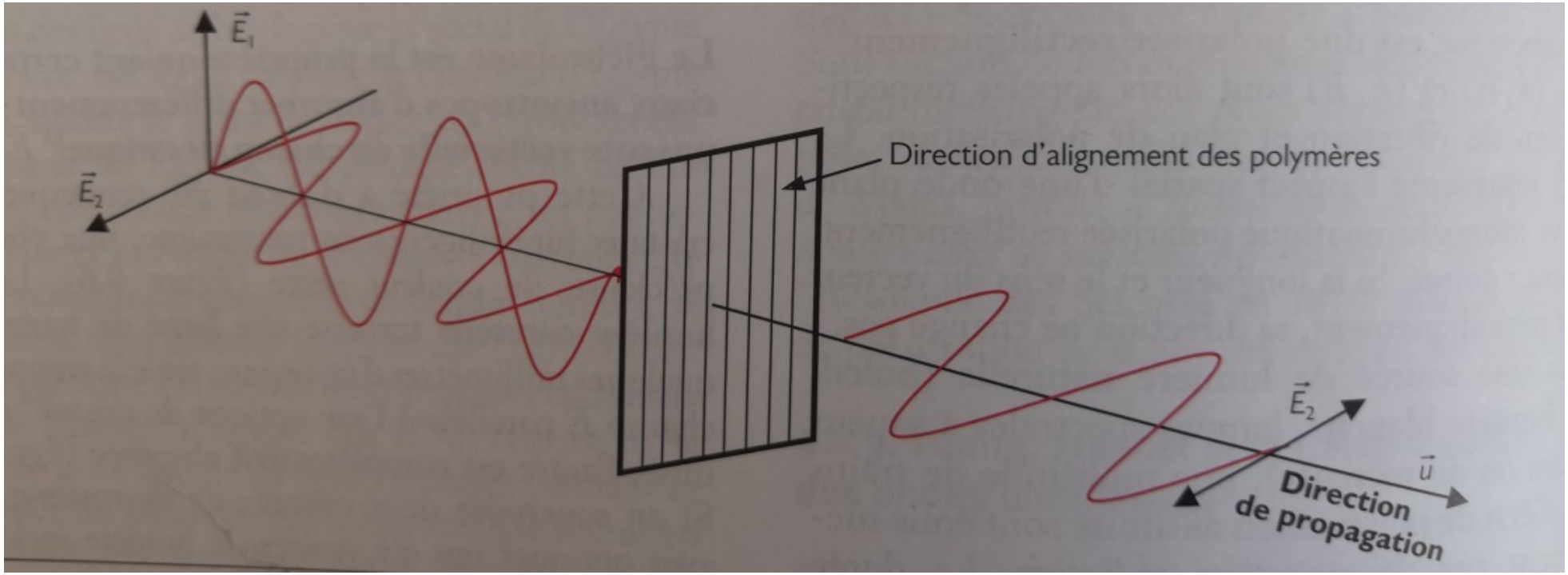
Houard, p. 260

Conclusion – Les anti-reflets ?

Houard, p. 268

Restez chez vous !

Polariseurs – grilles métalliques ou polaroids



Houard, p. 254