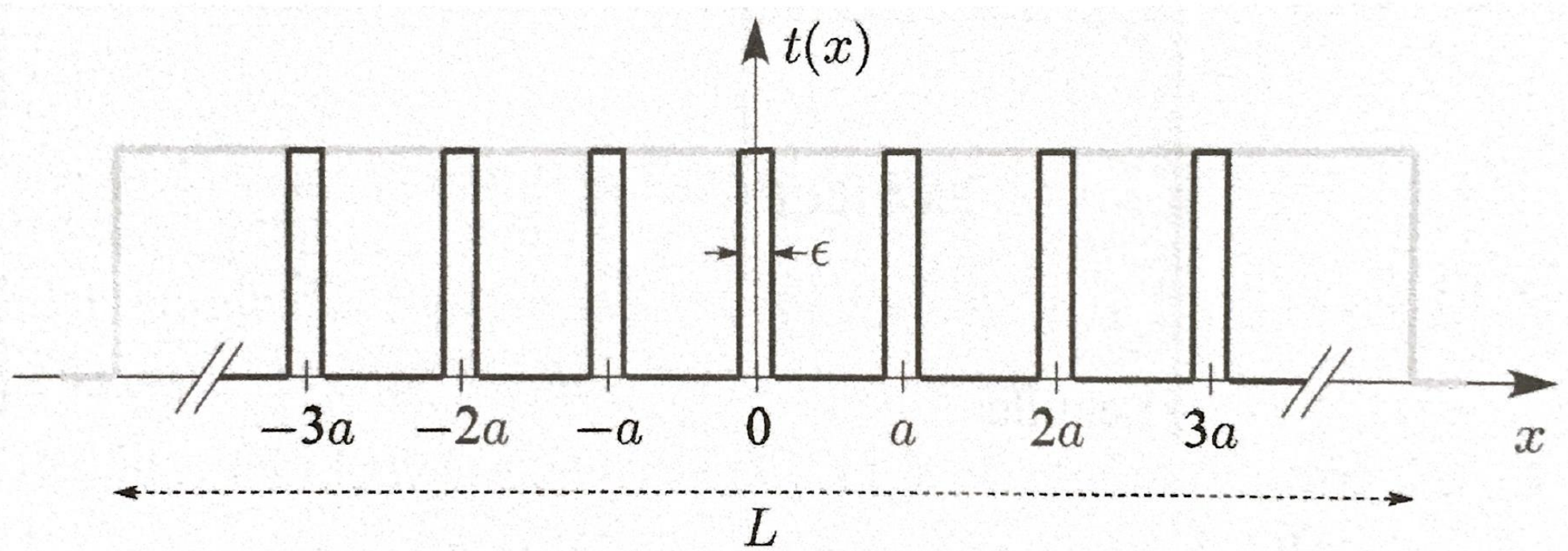
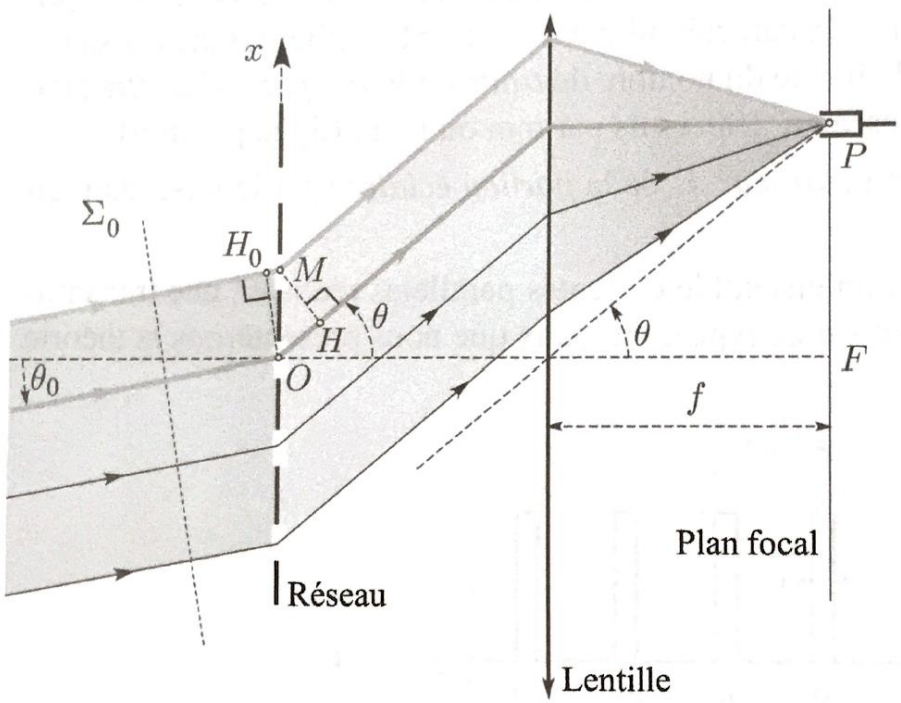
L.P. 36 – Diffraction par structures périodiques

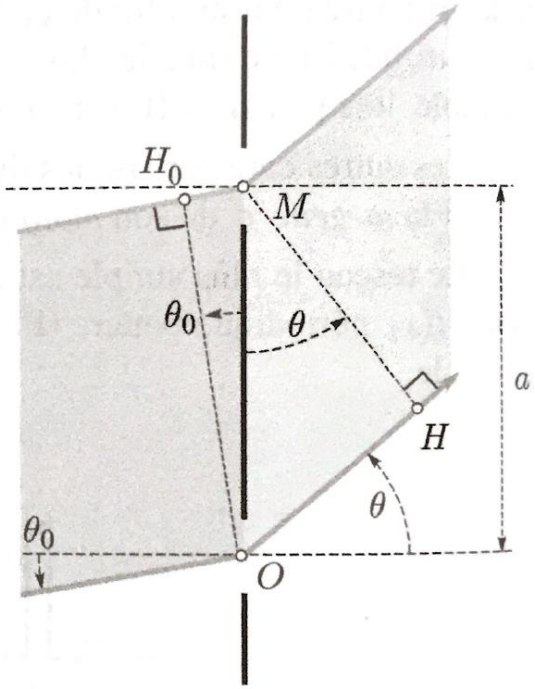
Marchetti Benjamin

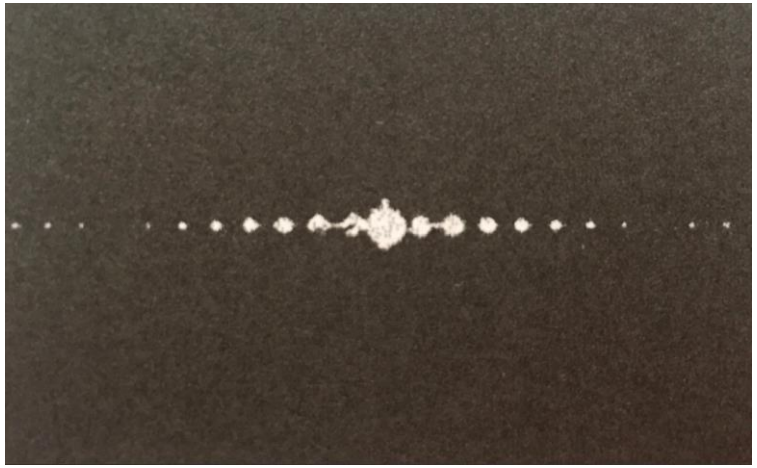
1. Réseaux
Définitions



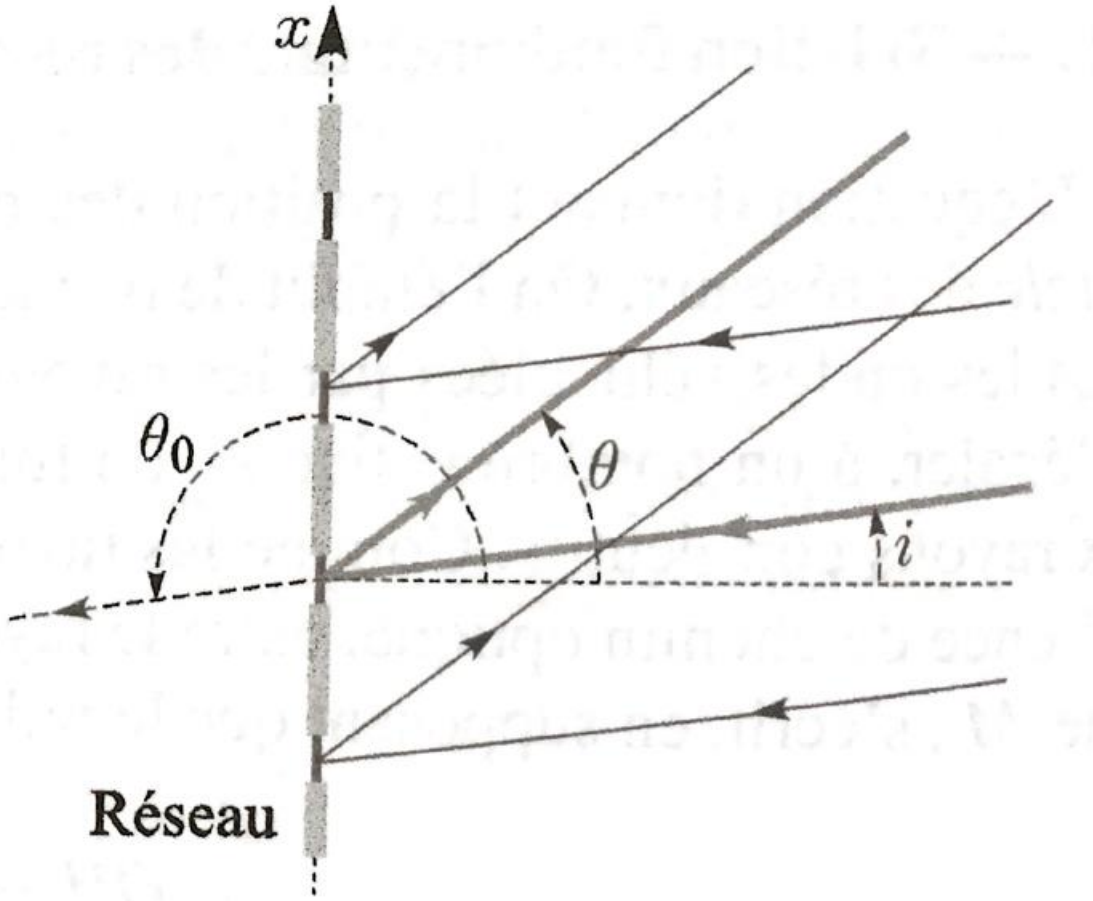
1. Réseaux


x
Σ_0
H_0
M
H
θ
θ_0
O
P
F
θ
f
Plan focal
Réseau
Lentille


H_0
M
θ_0
θ
H
a
θ
θ_0
O

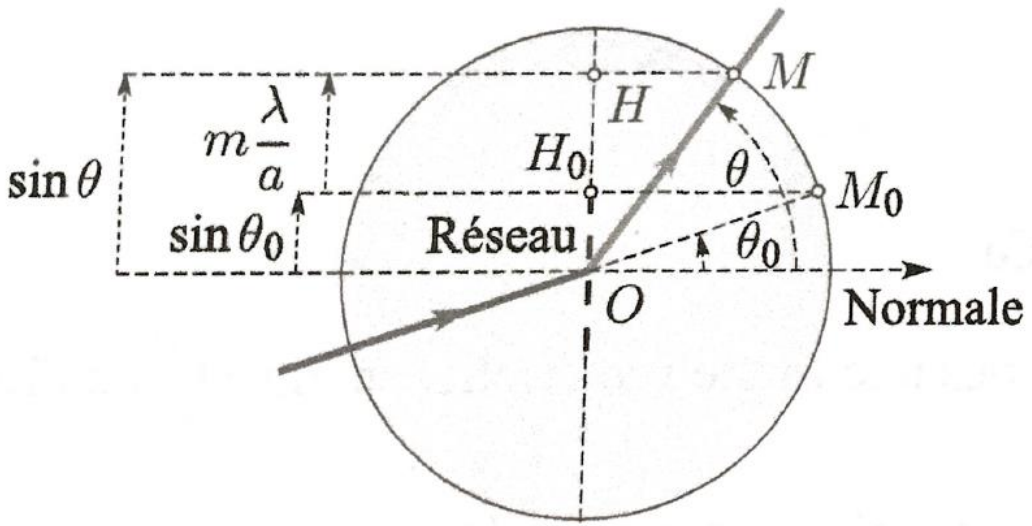


1. Réseaux

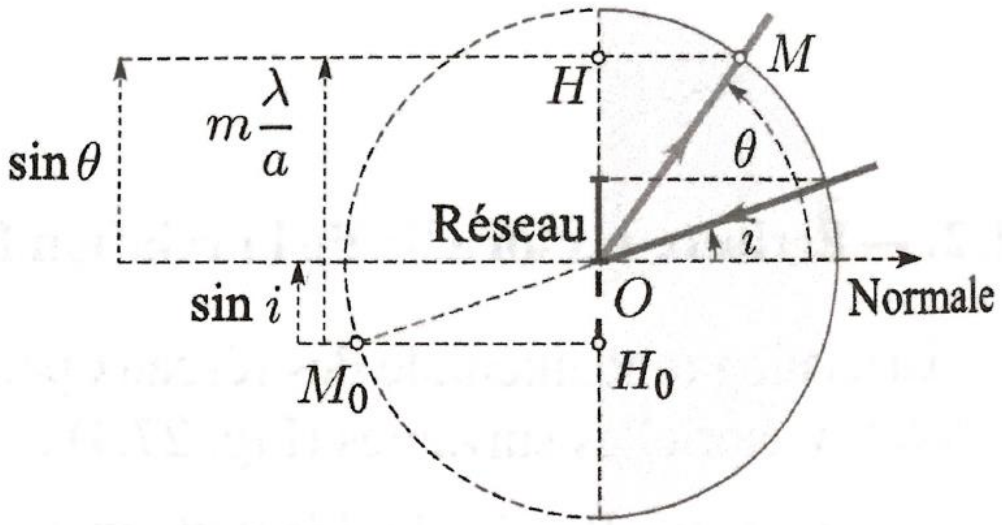


Réseau par réflexion

1. Réseaux



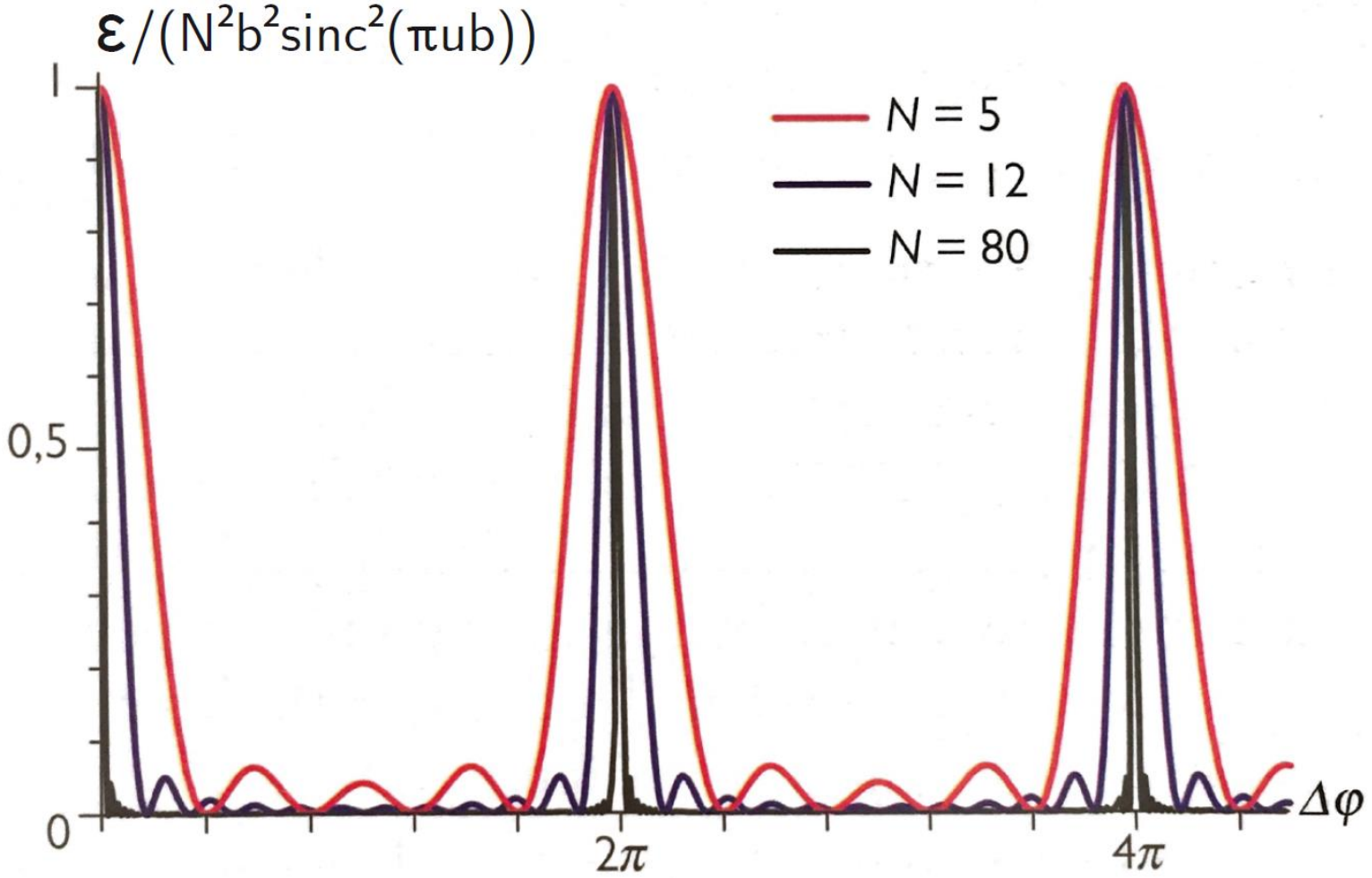
a) Par transmission



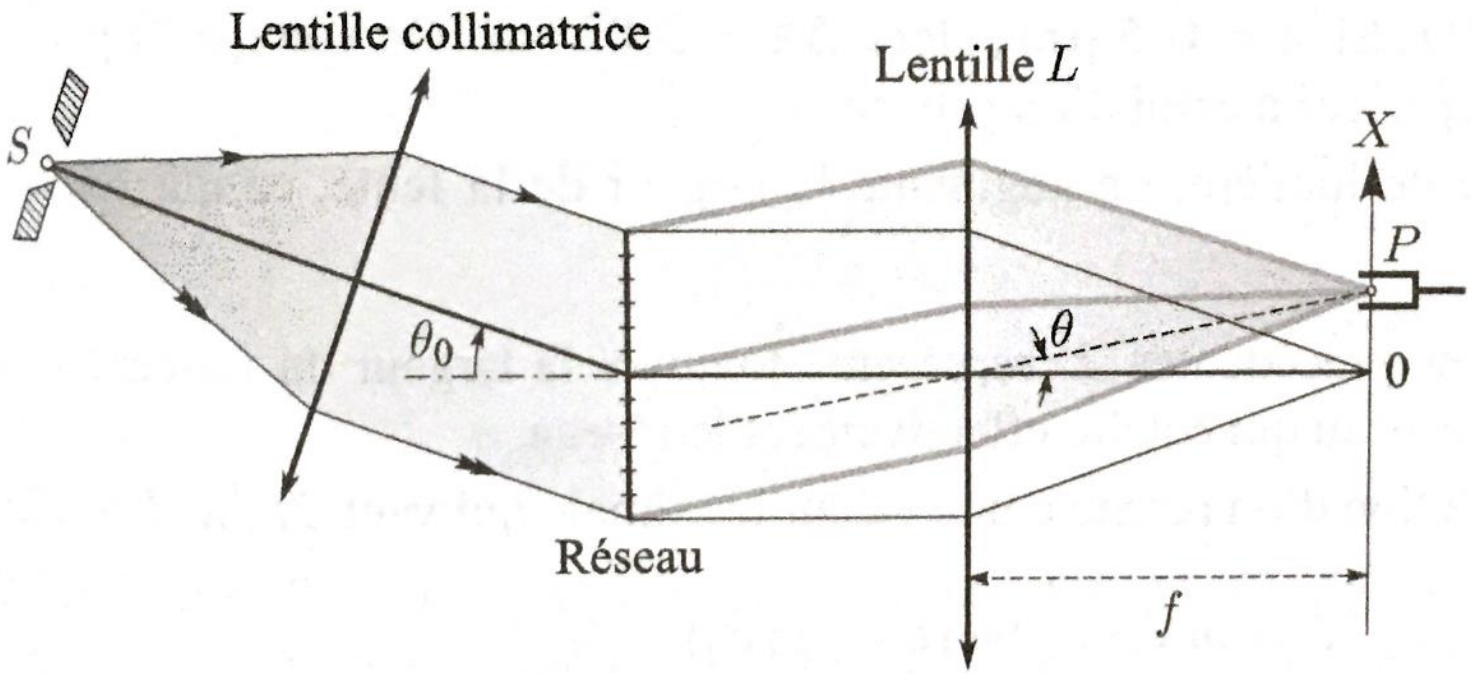
b) Par réflexion

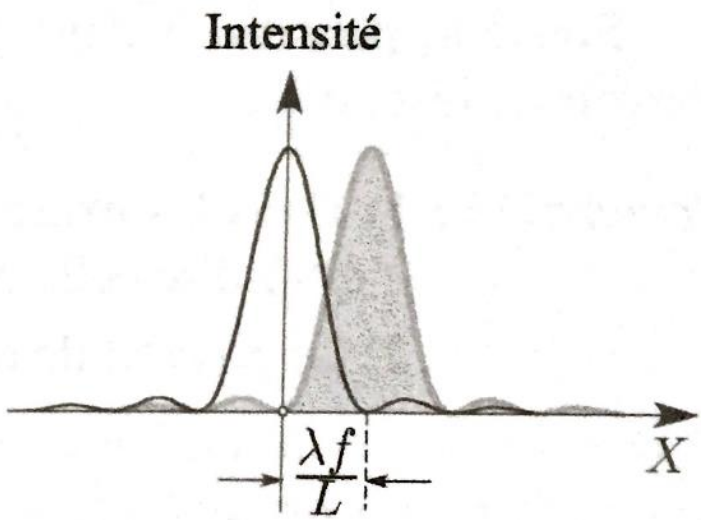
Réseau par réflexion

1. Réseaux
Intensité diffractée

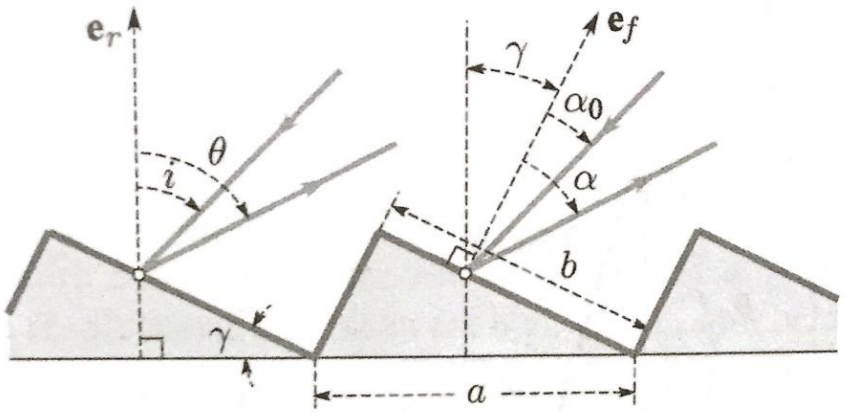


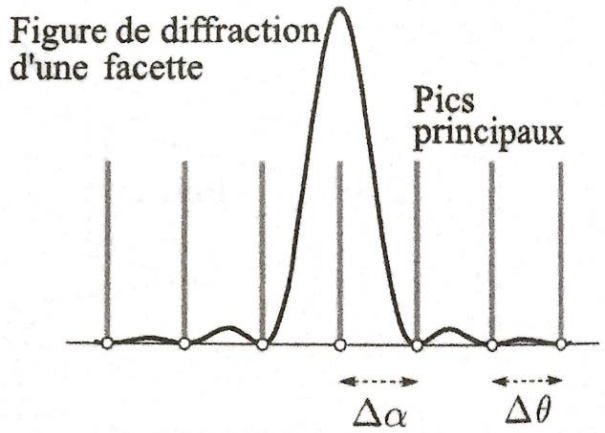
2. Propriétés et applications
Spectromètres à réseaux



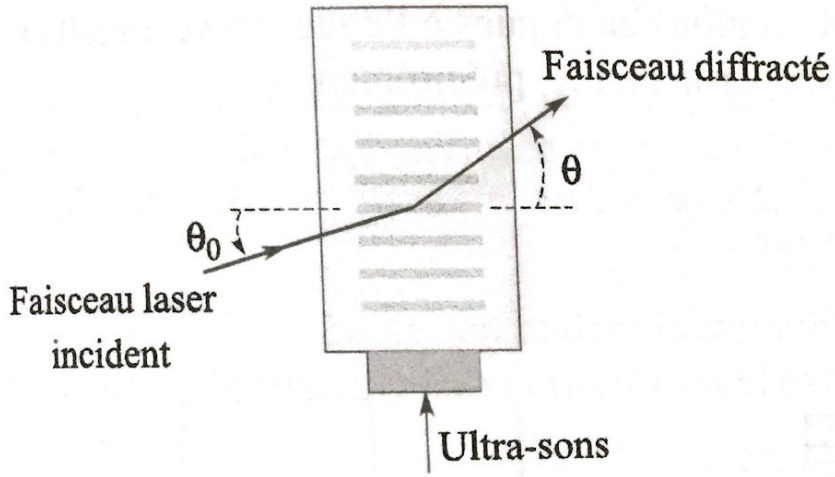


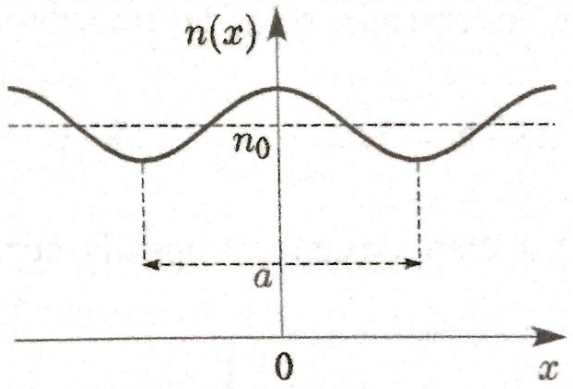
2. Propriétés et applications
Différents types de réseaux plans





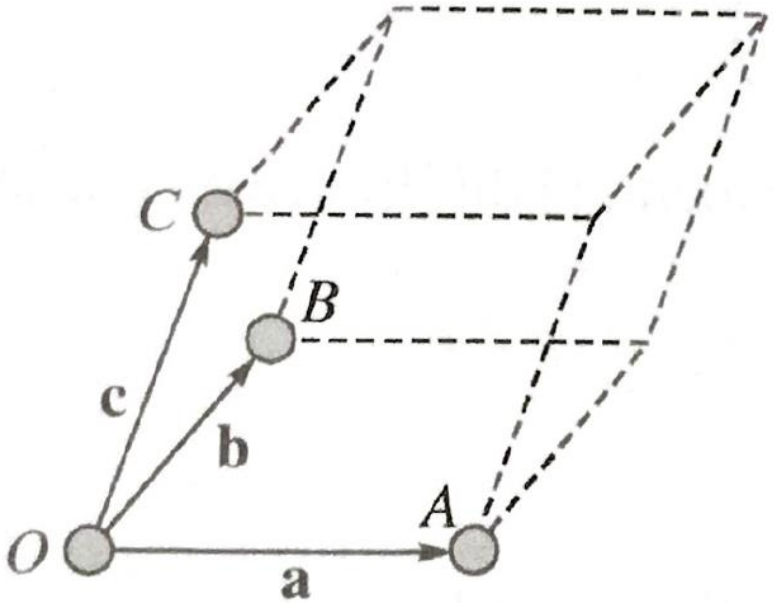
Réseau échelette

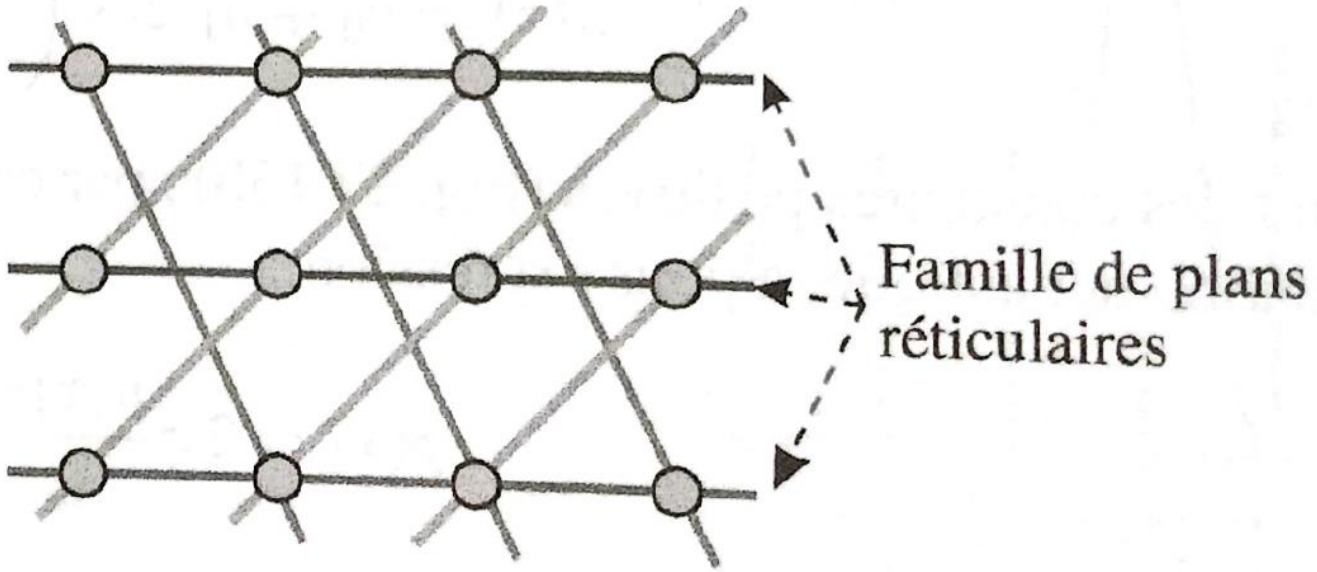




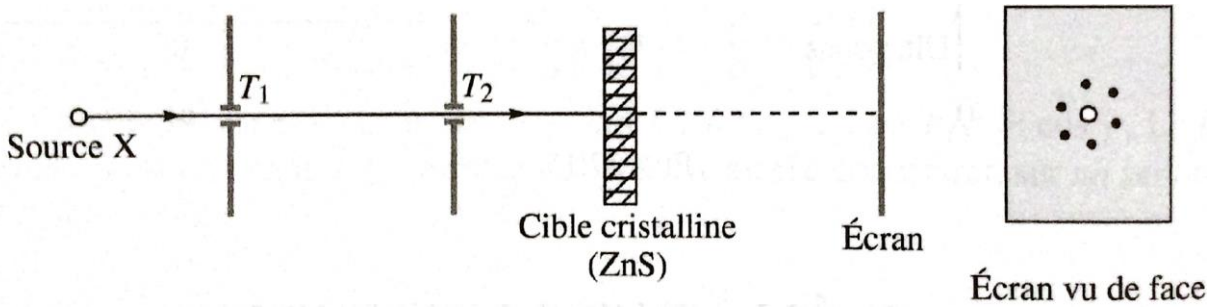
Réseau acousto-optique

3. Extension aux réseaux tridimensionnels

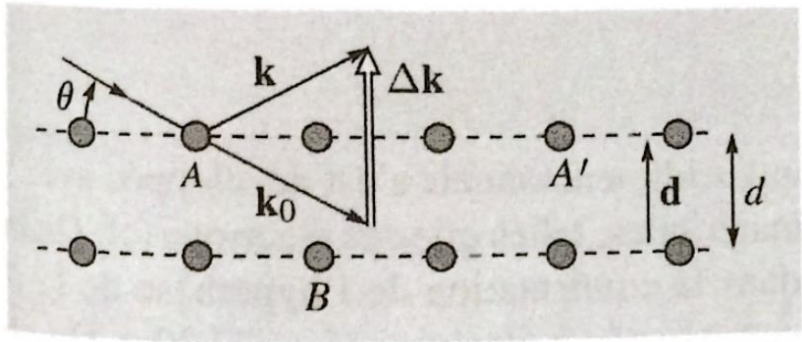


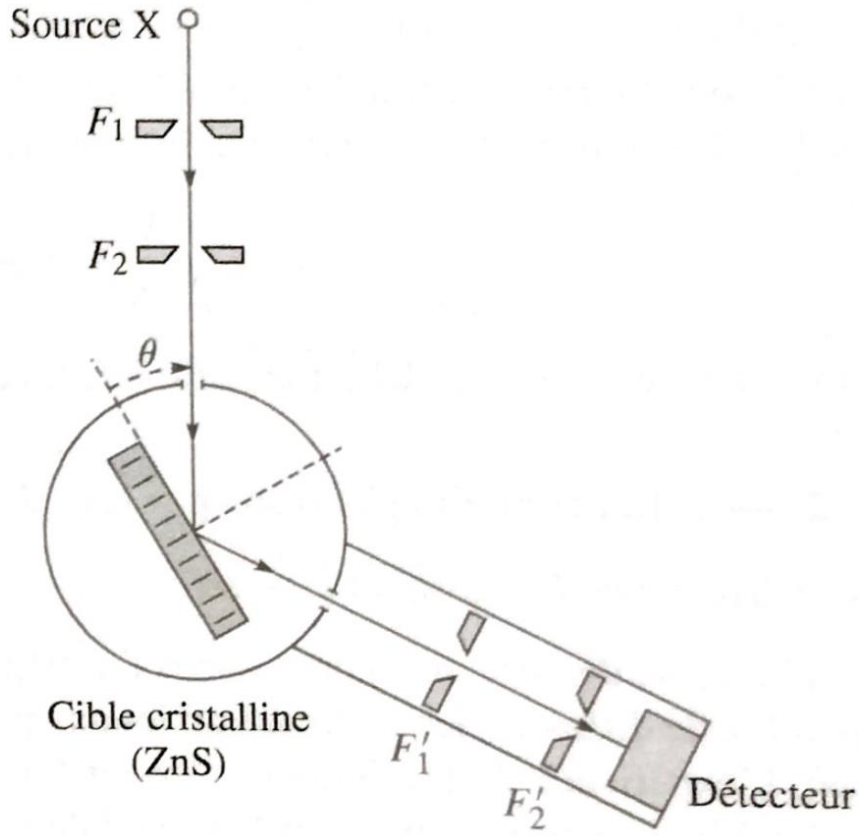


3. Extension aux réseaux tridimensionnels
Diffraction des rayons X



Expérience de van Laue





3. Extension aux réseaux tridimensionnels Diffraction des rayons électrons