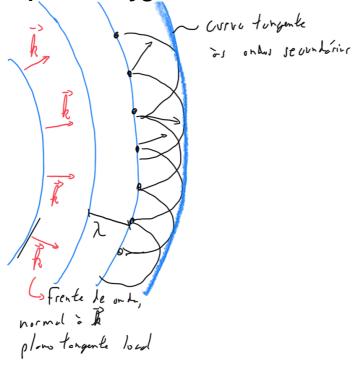
Princípio de Huygens



Co da ponto da
frento de unha
pole ser dretado hao
uma nova fonto.

Produzin on dus securtirios cuja envelope forma a no va Fronte de unda

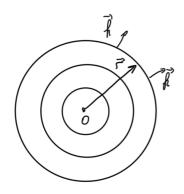
Lembrown: On the plane:
$$p(\vec{r},t)=P_0$$
 con $(\vec{k}.\vec{r}-wt+\psi)$

$$\vec{k}=cte$$

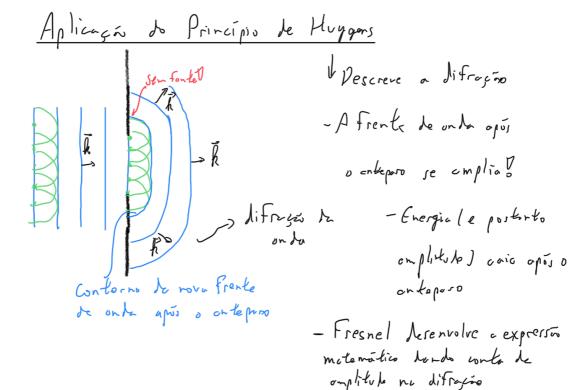
$$5 poste especial$$

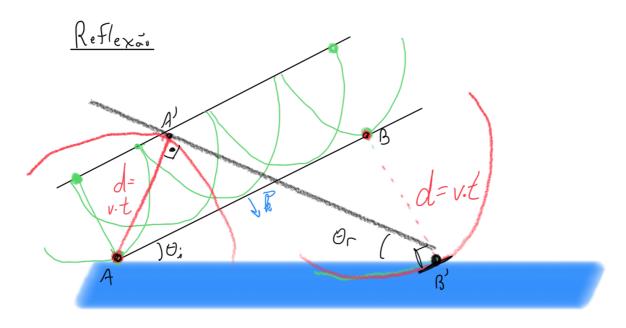
$$te fore$$

Ondos circulores ou esfériles (2D) (3D



$$p(\vec{r},t) = P(r) con (k.r-mt+q)$$
 $h = |\vec{k}|$
 con
 con





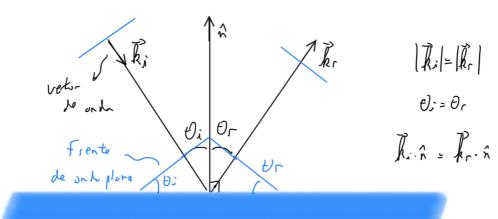
DABB' semelhante DAA'B'

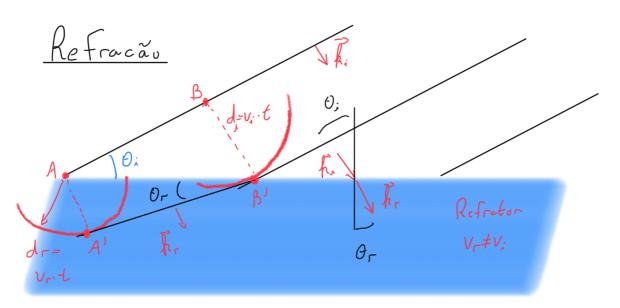
=> Oi = Or Loha AB' comum

Ritarion AA' = BB' = d

Ângulo he reflexión = Ângulo he incidencio

Lei de reflexa le un dus





$$ABB^{\prime} \neq AA^{\prime}B^{\prime}$$

Note: Sen
$$\Theta_{i} = \frac{di}{AB^{3}}$$
; $\int en \theta_{r} = \frac{dr}{AB^{3}}$

$$= \sum \frac{Sen \theta_{i}}{di} = \frac{Sen \theta_{r}}{Ar} = \sum \frac{Sen \theta_{i}}{V_{i} \cdot t} = \frac{fen \theta_{r}}{V_{r} \cdot t}$$

$$= \sum \frac{Sen \theta_{i}}{di} = \frac{fen \theta_{r}}{Ar} = \sum \frac{fen \theta_{r}}{V_{r} \cdot t} = \frac{fen \theta_{r}}{V_{r} \cdot t}$$

$$= \sum \frac{fen \theta_{i}}{di} = \frac{fen \theta_{r}}{V_{r}} = \frac{fen \theta_{r}}{V_{r} \cdot t}$$

$$= \sum \frac{fen \theta_{i}}{V_{r}} = \frac{V_{i}}{V_{r}} \wedge \frac{fei fe Snell}{fen \theta_{r}}$$

$$= \sum \frac{fen \theta_{r}}{V_{r}} = \frac{fen \theta_{r}}{V_{r}} \wedge \frac{fei fe Snell}{fen \theta_{r}}$$

$$= \sum \frac{fen \theta_{r}}{V_{r}} = \frac{fen \theta_{r}}{V_{r}} \wedge \frac{fei fe Snell}{fen \theta_{r}}$$

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$$= \sum \frac{fen \theta_{r}}{fen \theta_{r}} = \frac{fen \theta_{r}}{V_{r}} \wedge \frac{fei fe Snell}{fen \theta_{r}}$$

$$= \sum \frac{fen \theta_{r}}{fen \theta_{r}} = \frac{fen \theta_{r}}{V_{r}} \wedge \frac{fei fe Snell}{fen \theta_{r}}$$

$$= \sum \frac{fen \theta_{r}}{fen \theta_{r}} = \frac{fen \theta_{r}}{V_{r}} \wedge \frac{fei fe Snell}{fen \theta_{r}} = \frac{fen \theta_{r}}{fen \theta_{r}} = \frac{fen \theta_{r}}{V_{r}} \wedge \frac{fen \theta_{r}}{fen \theta_{r}} = \frac{fen \theta_{r}}{fen \theta_{$$

Lei de Snall-Pescartes: n: sant: = nr sentr

N=C = vol. As luz no vacuo vel. da luz no meio