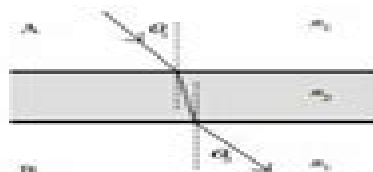


Esercizio 13.1

Un fascio di luce passa dalla regione A alla regione B di un mezzo con indice di rifrazione n_1 attraverso una spessa lastra di materiale il cui indice di rifrazione è n_2 . Di quale angolo viene deviato il fascio emergente rispetto al fascio incidente?



$$\sin \theta_f = \frac{n_2}{n_1} \left(\frac{n_1}{n_2} \sin \theta_i \right) = \sin \theta_i,$$

cioè $\theta_f = \theta_i$ e lo strato non altera la direzione del fascio.

Soluzione:

Utilizzando la legge di Snell per l'interfaccia superiore si ha

$$\sin \theta_i = \frac{n_1}{n_2} \sin \theta_1,$$

mentre per l'interfaccia inferiore si ha

$$\sin \theta_f = \frac{n_2}{n_1} \sin \theta_2.$$

Sostituendo la prima espressione nella seconda, si ottiene dunque

Determinazione dell'angolo di rifrazione

Un raggio incide sulla superficie di separazione tra aria e acqua con un angolo di incidenza di 46° . L'indice di rifrazione dell'acqua è 1,33. Determina l'angolo di rifrazione quando il raggio passa:

- dall'aria all'acqua.
- dall'acqua all'aria.

Ragionamento

Applichiamo la legge di Snell a entrambe le situazioni, ricordando che nella prima il raggio incidente proviene dall'aria, mentre nella seconda proviene dall'acqua. Teniamo conto di questa differenza indicando con il pedice 1 le variabili associate al raggio incidente e con il pedice 2 le variabili associate al raggio rifratto.

Soluzione

- Il raggio incidente proviene dall'aria, perciò $\theta_1 = 46^\circ$ e $n_1 = 1,00$. Il raggio rifratto è nell'acqua, perciò $n_2 = 1,33$. Per trovare l'angolo di rifrazione θ_2 possiamo usare la legge della rifrazione:

$$\sin \theta_2 = \frac{n_1 \sin \theta_1}{n_2} = \frac{(1,00)(\sin 46^\circ)}{1,33} = 0,54$$

$$\theta_2 = \sin^{-1}(0,54) = \boxed{33^\circ}$$

Poiché θ_2 è minore di θ_1 , il raggio rifratto si avvicina alla normale, come mostra la figura 14.1A.

- Quando il raggio incidente proviene dall'acqua otteniamo:

$$\sin \theta_2 = \frac{n_1 \sin \theta_1}{n_2} = \frac{(1,33)(\sin 46^\circ)}{1,00} = 0,96$$

$$\theta_2 = \sin^{-1}(0,96) = \boxed{74^\circ}$$

Poiché θ_2 è maggiore di θ_1 , il raggio rifratto si allontana dalla normale, come mostra la figura 14.1B.

Problem Solving**Osservazione sugli angoli di incidenza e di rifrazione**

L'angolo di incidenza θ_1 e l'angolo di rifrazione θ_2 , che compaiono nella legge di Snell sono gli angoli che i raggi formano con la normale alla superficie di separazione nel punto di incidenza e non quelli che i raggi formano con la superficie di separazione.

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N Colangelo



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