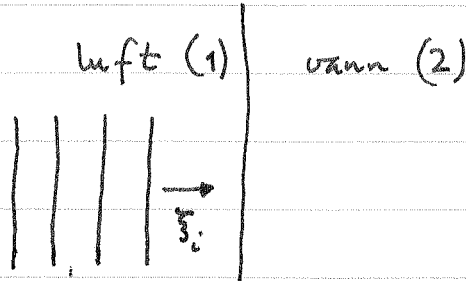


Eksempel 1,
to fluider:



$$T = 20^\circ\text{C}$$

$$P = 1 \text{ atm}$$

$$B_2 = B_{\text{vann}} = 2.1 \cdot 10^9 \text{ N/m}^2$$

$$B_1 = B_{\text{luft}} = \gamma P = \frac{7}{5} \cdot 10^5 \text{ N/m}^2$$

$$\Rightarrow \sqrt{\rho_1 B_1} = \sqrt{1.29 \cdot 1.4 \cdot 10^5} \approx 425 \text{ kg/m}^2\text{s}$$

$$\sqrt{\rho_2 B_2} = \sqrt{10^3 \cdot 2.1 \cdot 10^9} \approx 1.45 \cdot 10^6 \text{ kg/m}^2\text{s}$$

$$\Rightarrow R = \left\{ \frac{\sqrt{\rho_2 B_2} - \sqrt{\rho_1 B_1}}{\sqrt{\rho_2 B_2} + \sqrt{\rho_1 B_1}} \right\}^2 \approx 0.9988 \approx \underline{\underline{99.9\%}}$$

$$T = 1 - R \approx \underline{\underline{0.1\%}}$$

Eksempel 2, tynnstang (B $\rightarrow$ Y):

lyd- bølge	$\rightarrow$ Al (1)	Stål (2)
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$$\rho_1 = 2700 \text{ kg/m}^3$$

$$\rho_2 = 7800 \text{ kg/m}^3$$

$$Y_1 = 6.9 \cdot 10^{10} \text{ N/m}^2$$

$$Y_2 = 20 \cdot 10^{10} \text{ N/m}^2$$

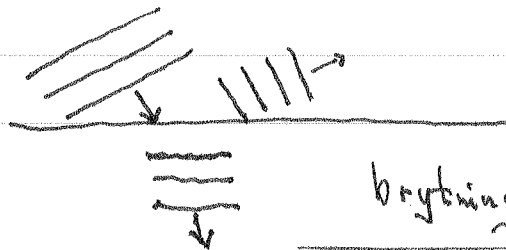
$$\sqrt{\rho_1 Y_1} = 1.36 \cdot 10^7$$

$$\sqrt{\rho_2 Y_2} = 3.95 \cdot 10^7$$

$$\Rightarrow R = \left(\frac{3.95 - 1.36}{3.95 + 1.36} \right)^2 \approx \underline{\underline{24\%}}$$

$$T = 1 - R \approx \underline{\underline{76\%}}$$

Sener i komet:



brytning! (Snells lov etc.)