



New OS for the PineNote

The screenshot displays the Quill OS interface. On the left, a physics lecture note is visible, containing the following content:

2.8.3

$$= \frac{1}{2} \left(\frac{Q^2 (d_2 - d_1)}{5 \epsilon_0} \right)$$
$$\oint \vec{D} \cdot d\vec{S} = \oint \vec{D} \cdot \hat{p} \cdot dS \cdot \hat{p} = \oint D ds$$

uniforme donc cste.

$$\Rightarrow \oint E ds = \frac{Q_{int}}{\epsilon_0}$$
$$\Rightarrow E \oint ds = E \int_0^L \int_0^{2\pi} \rho d\phi dz = E \rho (2\pi)(L) = E \rho 2\pi L$$

distance, pas constante dans d'autres contr

on a $\rho = x$ pour le champ du 1^{er} fil
 $\rho = d - x$ 2^e fil

$$E = E_1 + E_2 = \frac{\lambda}{2\pi \epsilon_0 x} + \frac{\lambda}{2\pi \epsilon_0 (d - x)}$$
$$= \frac{\lambda}{2\pi \epsilon_0} \left(\frac{1}{x} + \frac{1}{d - x} \right) \Rightarrow \Delta V = \left| - \int E(x) dx \right| \Rightarrow \frac{\lambda}{2\pi \epsilon_0} \int_a^{d-a} \left(\frac{1}{x} + \frac{1}{d - x} \right) dx$$

Champ du 1^{er} fil: pointe vers 2^e fil (+)
2^e fil: pointe vers 2^e fil (-)
 \Rightarrow on peut les additionner
 \rightarrow donné comme étant > 0 dans énoncé.
 \rightarrow pas vec. car dx même direction que $E(x)$

2.8.4

a) on a $\oint \vec{E} \cdot d\vec{A} = \frac{Q_{int}}{\epsilon_0}$

surface de Gauss aussi

$$= \frac{\lambda}{2\pi \epsilon_0} \left[\ln(x) - \ln(d - x) \right]_a^{d-a}$$
$$= \frac{\lambda}{2\pi \epsilon_0} \left[\ln(d - a) - \ln(a) \right]$$

On the right, a system menu is open, showing the time 13:17, date Fri, Jan 30, and uptime 0h 49m. The menu includes options for power, Bluetooth (Not connected), Screen, Performance, and volume control.

Feel free to try it out!



Note: Quill OS is in early beta state.

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