Notation
$$\longrightarrow$$
 div (\vec{v}) or $\vec{\nabla} \cdot \vec{v}$

$$\frac{div}{div} \rightarrow \frac{dv}{dv} \rightarrow \frac{dv}{dv}$$

$$\overrightarrow{\partial} \cdot \overrightarrow{V} = \left(\frac{\partial V_1}{\partial x} + \frac{\partial V_2}{\partial x} + \frac{\partial V_3}{\partial z} \right) \quad \text{where } \overrightarrow{V} = \left(V_1 , V_2 , V_3 \right)$$

$$V_1 = V_1 (x_1 y_1 z)$$

$$V_2 = V_2 (x_1 y_1 z) \qquad \Rightarrow \qquad V_1 \hat{z} + V_2 \hat{J} + V_3 \hat{k}$$

$$v_3 = v_3 \left(x_1 y_1 z \right)$$

$$\Rightarrow \overrightarrow{V_1} = \chi \widehat{i} + y \widehat{j} .$$

Soin div
$$(\vec{v_i})$$
 = in 1 \hat{z} + 1 = \hat{z} . (const).

$$\mathcal{L}_{i} \mathcal{L}_{i} \mathcal{L}_{i} + p^{2}$$

$$\Rightarrow \overrightarrow{V_2} = \chi^2 \widehat{i} + y^2 \widehat{j} \Rightarrow \text{div}(\overrightarrow{V_2}) = \partial(x+y) \cdot (\text{not const}).$$

$$(V_1) = \partial (V_2) = \partial (V_2)$$

$$\frac{\text{div}(\vec{v})|_{p} \times o}{\text{div}(\vec{v})|_{p} \times o} \xrightarrow{\text{foundain}} \frac{1}{\text{foundain}} = \frac{1}{(n)} \frac{1}{(n)} = \frac{1}{(n)} = \frac{1}{(n)} = \frac{1}{(n)} \frac{1}{(n)} = \frac{1}{(n)} \frac{1}{(n)} = \frac$$

$$\operatorname{div}(\vec{V})|_{p} < 0 \longrightarrow \operatorname{aink}$$
 $\operatorname{div}(\vec{V})|_{p} = 0 \longrightarrow \operatorname{atyeam line}$

$$\overrightarrow{E} = (x,y)$$

$$\overrightarrow{div}(\overrightarrow{E})|_{p} > 0 \quad \text{(Abuntain)}$$

$$\vec{E} = (x, y)$$

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(v, v) = (v, v) = (v, v)

Maxweu's eqn before modification.

Apply the thm in eqn (3).

*
$$\vec{\nabla} \cdot \vec{\epsilon} = \vec{\rho}$$

* $\vec{\nabla} \cdot \vec{\epsilon} = \vec{\rho}$

* $\vec{\nabla} \times \vec{\epsilon} = \vec{\rho}$

* Theodem: div (clert $\vec{\epsilon}$) = 0

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* $\vec{\nabla} \cdot (\vec{\sigma} \times \vec{\epsilon}) = \vec{\nabla} \cdot (\vec{\mu} \cdot \vec{\sigma}) = 0$

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DISPLACEMENT

CURRENT :

04-09-9093