4. HE

(二階)单位活量 $\vec{T} = \hat{e}_1\hat{e}_1 + \hat{e}_2\hat{e}_2 + \hat{e}_2\hat{e}_3$ $I_{ij} = \begin{pmatrix} 1 & 1 & 1 \end{pmatrix}$

运军性质: AB丰BA

 $(\vec{A}\vec{B})\cdot\vec{C} = \vec{A}(\vec{B}\cdot\vec{C})$ $(\vec{a}\vec{B}):(\vec{c}\vec{D}) = (\vec{B}\cdot\vec{C})(\vec{A}\cdot\vec{D})$ $(\vec{A} \cdot \vec{v})\vec{B} = \vec{A} \cdot (\vec{v}\vec{B})$ $\nabla \cdot (\vec{A}\vec{B}) = (\nabla \cdot \vec{A})\vec{B} + (\vec{A} \cdot \nabla)\vec{B}$ VX(AB) = (VXA)B-(AXV)B (本×D)·干= 本·(ヤ×干)

事事。到为是引动

1. Maxwell to FELA

$$\begin{array}{c|cccc}
\hline
A & \nabla \cdot \vec{E} = \frac{c}{\epsilon_{B}} \\
\hline
\nabla \times \vec{E} = -\frac{3i}{24} \\
\hline
\nabla \cdot \vec{B} = 0
\end{array}$$

$$\begin{array}{c|cccc}
\nabla \cdot \vec{D} = \vec{G} \\
\hline
\nabla \times \vec{E} = -\frac{3i}{24} \\
\hline
\nabla \cdot \vec{B} = 0
\end{array}$$

$$\begin{array}{c|cccc}
\nabla \times \vec{B} = 0 \\
\hline
\nabla \times \vec{H} = \vec{J} + \frac{3i}{24}
\end{array}$$

$$\frac{dQ}{dt} + \iint \vec{J} \cdot d\vec{J} = 0$$

$$\frac{dQ}{dt} + I_{2} = 0$$

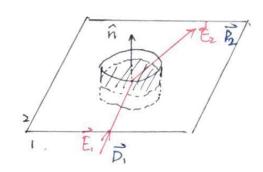
2. Maxwell 方程值的过值形式

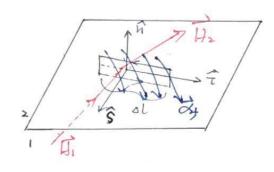
$$\oint \vec{E} \cdot d\vec{s} = -\iint P dV = \frac{d}{E_0}$$

$$\oint \vec{E} \cdot d\vec{s} = -\iint \vec{E} \cdot d\vec{s}$$

$$\oint \vec{E} \cdot d\vec{s} = 0$$

$$\oint \vec{E} \cdot d$$





$$\begin{array}{ccc}
\mathcal{D}\vec{a} : & \not \mid \vec{D} \cdot d\vec{s} = Q_f \\
(\vec{D}_a - \vec{D}_a) \cdot d\vec{s} \hat{n} = G_f \Delta S
\end{array}$$

$$\hat{n} \cdot (\vec{o}_2 - \vec{o}_1) = \vec{o}_1$$

$$\text{RRZFB} \quad \text{fi.} (\vec{B}_2 - \vec{B}_1) = 0$$

$$(\vec{H}_2 - \vec{H}_1) \cdot (-\hat{\tau}_{A}) = \vec{\alpha}_{f} \cdot \beta \hat{s}$$

$$\hat{\mathbf{S}} \cdot \hat{\mathbf{H}} \times (\vec{\mathbf{H}}_2 - \vec{\mathbf{H}}_1) = \vec{\alpha}_f \cdot \hat{\mathbf{S}}$$