${\bf Likstr\"{o}m}$

 ${\bf Str\"omt\"athet}$

$$I = \int \boldsymbol{J} \cdot e_n \, dS$$

Konservationsekvationen

$$\mathbf{\Delta} \cdot \mathbf{J} + \frac{\partial \rho}{\partial t} = 0$$

$$\oint \mathbf{J} \cdot \mathbf{e}_n \, dS = -\frac{dQ}{dt}$$

 ${\bf Konduktivitet}$

$$\boldsymbol{J} = \sigma \boldsymbol{E}$$

Effekt

$$P = \int \boldsymbol{J} \cdot \boldsymbol{E} \, dv$$

Randvillkor

$$\begin{cases} oldsymbol{e}_{n2} \cdot (oldsymbol{J}_1 - oldsymbol{J}_2) = 0 & ext{(ingen likström)} \\ oldsymbol{E}_{t1} = oldsymbol{E}_{t2} \end{cases}$$

Tidskonstant

$$RC = \frac{\epsilon_r \epsilon_0}{\sigma}$$

Analogi elstatik-likström

$$egin{array}{|c|c|c|c|} oldsymbol{E}, V & oldsymbol{E}, V \\ oldsymbol{D} & oldsymbol{J} \\ \epsilon_r \epsilon_0 & \sigma \\ Q & I \\ C & G \\ \hline \end{array}$$