$$egin{aligned} rac{\oint_{\partial S} m{E} \cdot \mathrm{d}m{s} = -rac{\mathrm{d}}{\mathrm{d}t} \iint_S m{B} \cdot \mathrm{d}m{S}}{\mathrm{Induction \ law}} m{B} \ & \mathrm{Material \ property} \ m{B} = \mu_0 \mu_\mathrm{r} H \ \end{pmatrix} \ \mathbf{B} = \mu_0 \mu_\mathrm{r} H \ \end{pmatrix}$$