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# Problem Solving in Theoretical Physics

$$T_{ik} = \frac{\partial x'^l}{\partial x^i} \frac{\partial x'^m}{\partial x^k} T'_{lm}$$

$$\int_V \nabla \cdot \mathbf{A} dV = \oint_S \mathbf{A} d\mathbf{S}$$

$$F_{\mu\nu} = \partial_\mu A_\nu - \partial_\nu A_\mu$$

$$\hat{\mathbf{A}}_{\text{rad}}(\mathbf{r}, t) = \sum_{\mathbf{k}, \lambda} \sqrt{\frac{2\pi\hbar c^2}{\omega V}} \left\{ e_{\mathbf{k}, \lambda} \hat{c}_{\mathbf{k}, \lambda} e^{-i(\omega t - \mathbf{k}\mathbf{r})} + \text{h.c.} \right\}$$

$$f(\epsilon_n) = \frac{1}{e^{(\epsilon_n - \mu)/k_B T} + 1}$$

# Theoretical Physics 1st Edition

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