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MATHEMATICAL METHODS FOR PHYSICISTS Start from Maxwell's equation for $\nabla \times B$ and substitute for the fields B and E in terms of the potentials A and ϕ . The relevant equations are $\nabla \times B = \mu_0 J + \mu_0 \epsilon_0 \frac{\partial E}{\partial t}$, $\nabla \times A = -\nabla \phi - \frac{\partial A}{\partial t}$, $\nabla \cdot E = \frac{\rho}{\epsilon_0}$, $\nabla \cdot A = -\frac{1}{c^2} \frac{\partial \rho}{\partial t}$

CHAPTER 3. Instructor's Manual:

Mathematical Methods for Physicists ... George Brown Arfken (born November 20, 1922) is an American theoretical physicist and the author of several mathematical physics texts. He was a physics professor at Miami University from 1952 to 1983 and the chair of the Miami University physics department 1956–1972. He is currently an emeritus professor at Miami University. Arfken is also an authority on Canadian philately. [George B. Arfken - Wikipedia](#)

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