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$\int_{\partial V} \mathbf{j} \cdot d\mathbf{a}$ is twice to obtain the equations of motion in the limit $\hbar \rightarrow 0$: $\partial_t = \partial/\partial t$, $\partial_x = \partial/\partial x$ where $\lim_{\hbar \rightarrow 0} \hbar \mathbf{k} = m \mathbf{v}$ is the mass density which we keep fixed.

Ma432 Classical Field Theory

Classical electrodynamics and general relativity are perfectly consistent with one another. They are the most fundamental classical field theories and the main subject of this course. A third dimension in theory space was discovered by Planck who started quantum mechanics and introduced the fundamental action quantum \hbar .

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Lecture Notes on Classical Field Theory

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Classical Electrodynamics - Duke University

Classical eld theory is a very vast subject which traditionally includes the Maxwell theory of electromagnetism describing electromagnetic properties of matter and the Einstein theory of General Relativity.

Classical Field Theory - Universiteit Utrecht

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Maxwell's equations are a set of coupled partial differential equations that, together with the Lorentz force law, form the foundation of classical electromagnetism, classical optics, and electric circuits. The equations provide a mathematical model for electric, optical, and radio technologies, such as power generation, electric motors, wireless communication, lenses, radar etc.

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