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Computational fluid dynamics - Wikipedia

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can often be written in the form $-\frac{d}{dt} \int_V \rho \mathbf{E} \cdot d\mathbf{x} = \int_V \rho \mathbf{F} \cdot d\mathbf{x}$ where \mathbf{E} and \mathbf{F} are vectors and $\mathbf{F} = \mathbf{F}(\mathbf{E})$.

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