

On the Lorentz Invariance of Maxwell's Equations

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Abstract

It is shown that, contrary to existing opinion, Maxwell's equations are not invariant in form under Lorentz transformations.

Keywords: Special Theory of Relativity, Maxwell's equations, Lorentz transformations, Lorentz invariant, covariant, free space, Lorentz force, Biot-Savart law, Electric field, Magnetic field, source charge, test charge

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