

Radiation reaction of a charged particle with the external rectangular force

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In this work We consider the equation motion of an accelerating finite spherical shell charged particle which brings to the Landau-Lifshitz equation. This equation show that an acceleration of charged particle depends on an external force and its derivative. We find the solution of the acceleration from external rectangular force. SO that we solve the velocity and position of the charged particle. As a result we compare with the equation of motion from the Abraham-Lorentz equation.

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