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1.1 Lagrangian Mechanics. Newton's second law of motion states that for a body of constant mass m acted on by a force  $F = \frac{d}{dt}(p) = m\ddot{x}$  (1.1) where  $p$  is the linear momentum ( $p = mx$ ),  $x$  is the position of the body and  $\dot{x} = \frac{dx}{dt}$ . Hence if  $F = 0$  then the linear momentum is conserved  $\dot{p} = 0$ .

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