

1. 1D CM Motion

Newton's 2nd Law:

Initial conditions:
position and velocity:

Boundary condition:



Newton's 2nd Law:

$$M_{tot} = M_{tot,0} \quad \text{if}$$

$$F_{ext} = -F_{int} = 0$$

$$F_{ext} = -F_{int} = \text{const} \neq 0$$

$$a = -\frac{F_{int}}{M_{tot}} \quad \text{if}$$

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Initial conditions:
position and velocity:

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Mechanics Study Guide

PT Brinkman

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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