



SISTEMAS DE PARTÍCULAS

$$\begin{bmatrix} \vec{F}_{1\rightarrow2} = \frac{m_1 + m_2}{m_1 m_2} & \frac{\partial \vec{V}_{1\rightarrow2}}{\partial t} \end{bmatrix}$$

$$\begin{bmatrix} c_{\text{CM}} = \frac{\mathcal{E}_{\text{Min}}}{m_1 m_2} & \frac{\partial \vec{V}_{1\rightarrow2}}{\partial t} \end{bmatrix}$$

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$$\Rightarrow \underbrace{No \text{ Aislado: quel. del certor de masas = 0}}$$

• CONS. HOHENTO LINEAL (SIEMPRE)

$$\begin{bmatrix}
\nabla_{CM} = \frac{\mathcal{E}_{M_1} \overline{v}_1^2}{M_T} \end{bmatrix} = \frac{P}{M_T} \qquad \text{MOMENTO LIN.} \qquad \begin{bmatrix}
\frac{\partial P}{\partial t} = F
\end{bmatrix}$$

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\frac{\partial P}{\partial t} = F
\end{bmatrix}$$

$$\begin{bmatrix}
\nabla_{CM} = \frac{\mathcal{E}_{M_1} \overline{v}_1^2}{M_T} + m_2 \overline{v}_2^2 = m_1 \overline{v}_1^2 + m_2 \overline{v}_2^2 + m_2$$