Chapter 03 - Momentum and Ayular Mon Conservation of Momentum System of N particles Interacting Fret, ext = dP P = momentum of the System, $\vec{p} = \vec{p}_1 + \vec{p}_2 + \cdots = \vec{p}_i$ Also, $\hat{P} = M\hat{v}_{cm}$ $M = total mass = \sum_{i=1}^{N} m_i$ $\hat{v}_{cm} = m_i \hat{v}_i + \hat{v}_2 + \cdots$ => weighted average.

TOPS

If Fret, ext = 0, then P = 0 and P is constant. Conservation of P Then for any time interval, Pi = Pf 50 PitPrit = Fix+Prx+1. MV11+ M2 V21+ ... = M, V, + M2 V2+ + ... Another way to state it is that Ven is constant. Thus as particles' velocities change due to internal forces,

Pays and Ven remain constant.

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