























Cartesian Coordinates for a system of segments

For *n* bodies:

- Positions $\mathbf{q} = [\mathbf{q}_1^T \dots \mathbf{q}_n^T]^T$ (7*n* coords:)
- Velocities $\mathbf{v} = [\mathbf{v}_1^{\mathsf{T}} \dots \mathbf{v}_n^{\mathsf{T}}]^{\mathsf{T}}$ (6*n* coords.)
- Accelerations: **v**_i

































