

\*  
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: [1, 2]

$$\mathbf{M}\ddot{\mathbf{u}}(t) + \mathbf{f}_{\text{int}} = \mathbf{f}(t)$$

$$\begin{array}{l} : \\ : \\ : \\ : \end{array} \left\{ \begin{array}{l} \mathbf{u}(t=0) = \mathbf{u}_0 \\ \dot{\mathbf{u}}(t=0) = \dot{\mathbf{u}}_0 \\ \mathbf{f}_{\text{int}}(t=0) = \mathbf{f}_{\text{int}_0} \\ \mathbf{Q}(\mathbf{u}, \dot{\mathbf{u}}) \end{array} \right.$$

( )