

# Strong-coupled Fluid-Structure Interaction Analysis

No-penetration condition of flow:

$$[A_{ij}][\Gamma_j] = [b_i]. \quad (1)$$

Unsteady term

Time derivative of Eq. (1):

$$d_t[\Gamma_j] = M_{f1}\ddot{q} + M_{f2}. \quad (2)$$

Structure model

The **added mass term**  $M_{add}$  is included in the structure model.

$$(\mu M - M_{add})\ddot{q} + \zeta Q_{em}(q) + \eta Q_{ex}(q) + \theta^* \{ \zeta Q_{dm}(q, \dot{q}) + \eta Q_{dx}(q, \dot{q}) \} = Q_p(\Gamma)$$

# A Fem Matlab Code For Fluid Structure Interaction Coupling

**SJ Ball**



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