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):

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

Structure model

The added mass term $\boldsymbol{M}_{add}$ is included in the structure model.

$$(\mu\boldsymbol{M} - \boldsymbol{M}_{add})\ddot{\boldsymbol{q}} + \zeta\boldsymbol{Q}_{cm}(\boldsymbol{q}) + \eta\boldsymbol{Q}_{ex}(\boldsymbol{q}) + \theta^*\{\zeta\boldsymbol{Q}_{dm}(\boldsymbol{q},\dot{\boldsymbol{q}}) + \eta\boldsymbol{Q}_{dx}(\boldsymbol{q},\dot{\boldsymbol{q}})\} = \boldsymbol{Q}_p(\Gamma)$$

A Fem Matlab Code For Fluid Structure Interaction Coupling

Yicheng Fang

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