

## Accepted Manuscript

A fast mesh moving scheme for flow-induced vibrations of rigid bodies

Mohd Furquan, Navrose, Sanjay Mittal

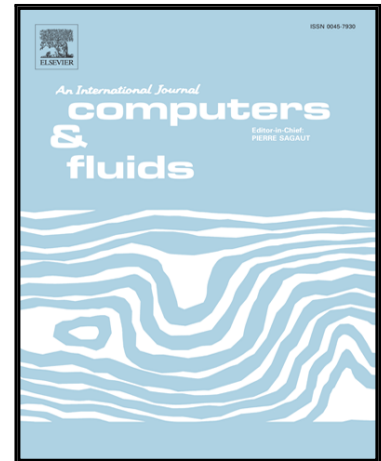
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**Highlights**

- A new mesh moving scheme is proposed.
- The scheme is based on interpolation from a set of deformed meshes.
- It is applicable to domains that deform due to movement of rigid bodies.
- It is computationally inexpensive and is scalable on a parallel architecture.
- The scheme is illustrated for vortex induced vibrations of a cylinder.

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