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Partitioned Iterative and Dynamic Subgrid-Scale Methods for Freely Vibrating Square-Section Structures at High Reynolds Number

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Highlights

- New partitioned iterative scheme for fluid-body interaction and turbulent flow
- Approximate interface force correction and dynamic subgrid-scale LES
- Demonstration of stability for strong added-mass effects ($m^* < 1.0$)
- New insights of VIV and transverse galloping instabilities at moderate Re
- Practical application and validation of framework for offshore semi-submersible

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