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A research on the Vortex Induced Vibration of a hanging flexible riser and its stability

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Summary: A numerical scheme was developed to simulate the Vortex Induced Vibration (VIV) of a flexible riser. To validate the accuracy of this numerical scheme, some experiments were carried out. In experiments, the top end of a hanging riser model was forced to oscillate periodically or irregularly in an uniform flow. The three-dimensional motion of the model was measured four times at every experimental condition in order to analyze and discuss the stability of the VIV. Good agreements between the amplitudes and frequencies of VIV are confirmed in those comparisons.

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