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### About AMSE2018

The 2018 2nd International Conference on Advances in Management Science and Engineering (AMSE2018) will be held in Xi'an, China during June 24-25, 2018.

### Publication and Indexing

All AMSE2018 accepted papers will be published on the Journal of *Economics, Business and Management* (ISSN: 2475-8868) and will be submitted to CPCI-SSH (ISSHP) and CNKI Scholar for indexing.

### History

The First AMSE was successfully held in Phuket, Thailand on July 26-27, 2015. The proceedings of AMSE2015 have been published by DEStech Publications and indexed in CPCI-S (ISTP indexing)!



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**Numerical Study on the Influence of Groove Structure to Submarine Pipeline Resonance**

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**Abstract**  
Resonance is one of the main causes of submarine pipeline instability and one of the main facing problems of pipeline protection. The resistance being acted on pipeline includes viscous force and differential pressure force. The latter is much larger than the former for large Reynolds number. In addition, the periodical change of differential pressure force is the essential reason of resonance happening. A resonance-reduce model was established in this paper which is a pipeline with grooved surface. The relationship between pressure difference and groove depth was numerically studied with lattice Boltzmann method. Numerical results provide certain reference to prevent resonance.

**Keywords**  
Author Keywords: Resistance; Groove Structure; Pipeline; Resonance; LBM  
KeyWords Plus: CIRCULAR-CYLINDER; FLOW

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