



Код: 10570

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Leakage Detection in Pipelines Using Ensemble Empirical Mode Decomposition

Издательство DEStech Publications, Lancaster, 2010 год

6 стр; формат: 23,5 x 16 см; библиографический список: 13 единиц
ISBN: 978-1-60595-024-2

Finding leaks in fluid filled pipelines is extremely important for a variety of different industries. One method that has been successfully exploited by the Sheffield University group is to produce pressure transients in the fluid, record the reflected signal and analyse the results to extract information about the position of leaks. The aim of this paper is to compare the study of signal analysis techniques of simulated pipeline network leak detection using Empirical Mode Decomposition (EMD) and Ensemble Empirical Mode Decomposition (EEMD). The result show that newly developed techniques, EEMD appears to improve the ability of the method to identify features in the signal.

Ключевые слова:

Содержание.

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