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Numerical experiment optimization to obtain the characteristics of the centrifugal pump steps package

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Abstract

© Published under licence by IOP Publishing Ltd. The numerical simulation method of turbulent flow in a running space of the working-stage in a centrifugal pump using the periodicity conditions has been formulated. The proposed method allows calculating the characteristic indices of one pump step at a lower computing resources cost. The comparison of the pump characteristics' calculation results with pilot data has been conducted.

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