

Calculation of an unsteady jet flow around the plate cascade

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Abstract

In the framework of the general theory for unsteady weakly disturbed fluid flows with free boundaries, a problem is solved to calculate a jet flow around the cascade of plates executing the harmonic oscillations. We developed a program that enables us for the first time to carry out systematic calculations of flow characteristics depending on arbitrary values of determining parameters. © Allerton Press, Inc. 2009.

<http://dx.doi.org/10.3103/S106879980902010X>

Keywords

Hydrodynamic cascade, In-phase harmonic oscillations, Jet flow around a plate cascade, Unsteady flow