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ON A CONICAL SHELL FLUTTER AT INTERNAL STREAMLINE BY SUPERSONIC GAS FLOW

Abstract

A conical shell flutter problem was considered in the papers [1-4], and as a rule the problem statement was based on a formula of piston theory for positive pressure. The paper [5] is devoted to refined statement of the problem. The mathematical model suggested below is based on corollaries of a linearized equation for perturbed flow potential; the matter was reduced to a new non-classic eigen-value problem for a system of two integro-differential equations.