COMPUTING AERODYNAMIC PROPERTIES FOR A MODEL OF A DETACHABLE FAIRING FLAP AT A SUPERSONIC INCIDENT FLOW VELOCITY

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Abstract

We consider aerodynamic properties of a thin-walled shell representing a model of a detachable fairing flap used in launch systems. We carried out numerical modelling of the flow around the model of a detachable fairing flap at a supersonic incident flow velocity. We obtained aerodynamic coefficients and plotted the aerodynamic properties as functions of the angle of attack

Keywords

Aerodynamic properties, SolidWorks software package, ANSYS software package, thin-walled shells, detachable parts, flow modeling

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