ANALYSIS OF PASSIVE CONTROL OF BASE DRAG IN MISSILES

ABSTRACT

A key factor to aid a successful missile mission is the achievement of the planned trajectory. Generation of base drag highly contributes to the deviations in trajectory and also incurs loss of stability during flight.

The project focuses on enabling passive control techniques that incorporates the effects of boat tailing and tabs to the missile afterbody and analysing the cases with OPENFOAM.The results are compared with conventional solver output and an inference is made from these observations.

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