

Abstract Submitted
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Analysis Of Flow Around A Two Dimensional Body NAVEEN RAMUNIGARI, RAUL CORRAL, PAUL RODRIGUEZ, University of Texas at El Paso — A parachute has been analyzed to understand the physics that has been acting upon the parachute. These results are computed for air flow past a 2D model of a parachute is presented. The flow from different directions has been used for the computations for laminar and turbulent flows. The boundary conditions for the inlet flow have been defined for the entering region and the normal component of velocity is used for the upstream cells. The mass flow rate has also been computed. The computations for the airfoil without a leading edge cut for

$$\alpha = 0$$

results in an attached flow. The edge causes the significant effect on the pressure and the velocity profiles produced due the flow. It is found that the flow on the surface of the parachute had a greater impact. However the flow quality improves as the duration of the flow increases.

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