

COMPARATIVE FLOW ANALYSIS OF NACA S6061 AND NACA 4415 AEROFOIL BY COMPUTATIONAL FLUID DYNAMICS

Samanwita Roy

Mechanical Department, A.P. Shah Institute of Technology, Thane (W), Mumbai, India

ABSTRACT

In this study, a comparison has been drawn between the flow analysis of NACA S6061 and NACA 4415 aerofoil. The application of both airfoils is different. Here at zero angle of attack, the various parameters like pressure, velocity and turbulence are compared. The drag and lift coefficient of both has been analyzed. The results of this study were shown and simulated by using ANSYS 15. It has been found that NACA 4415 has lesser drag and lift at this angle of attack as compared to S6061 aerofoil which can be used for low Reynolds number application.

KEYWORDS: NACA S606, NACA 4415, Aerofoil, ANSYS FLUENT, CFD, Drag, Lift

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