

Noise Reduction by Energising the Boundary Layer

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Abstract : Aircraft noise is a highly concerned problem in the field of the aviation industry. It is necessary to reduce the noise in order to be environment-friendly. Air-frame noise is caused because of the quick separation of the boundary layer over an aircraft body. So, we have to delay the boundary layer separation of an air-frame and engine nacelle. By following a certain procedure boundary layer separation can be reduced by converting laminar into turbulent and hence early separation can be prevented that leads to the noise reduction. This method has a tendency to reduce the noise of the aircraft hence it can prove efficient and environment-friendly than the present Aircraft.

Keywords : airframe, boundary layer, noise, reduction

Conference Title : ICAA 2017 : International Conference on Applied Aerodynamics

Conference Location : Melbourne, Australia

Conference Dates : February 02-03, 2017