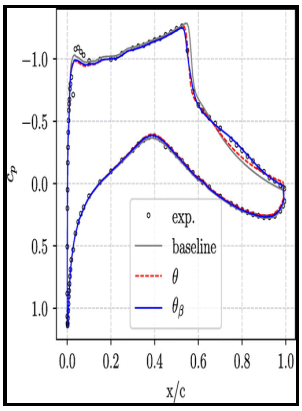
Far-field wind tunnel interference for CFD validation

Stanford University, Dept. of Aeronautics and Astronautics - Recent development of a CFD



Description: -
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Korea -- History, Local
Cities and towns -- Korea -- History
Wind tunnel walls
InterferenceFar-field wind tunnel interference for CFD validation
-Far-field wind tunnel interference for CFD validation
Notes: Bibliographical references: p.35.
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Tags: #Rotor #airfoil #aerodynamic #design #method #and #wind #tunnel #test #verification

Wind tunnel and CFD study of the natural ventilation performance of a commercial multi

Both hover and forward flight results show the interaction between the two wakes.

Publications related to the WIND

The four study cases, geometry and mesh preparation of the workshop are introduced.

Rotor airfoil aerodynamic design method and wind tunnel test verification

The presence of external wind was also considered to better investigate the phenomenon of the wake interaction between helicopter and ground obstacles using also the AD and UAD models in addition to the FB test cases FBff2, ADff2 and UADff2; see Table. Fully resolved blade simulations were performed, as well as unsteady computations using the AD and UAD models. Finally, it is noted that at a distance of 1D downstream of the rear part of the building, the three cases show little differences.

Development of flow structures in the near

Both show a good agreement of numerical and experimental results, indicating slight deviations of the pressure variable at the inboard wing sections.

Wind field reconstruction using dimension

Numerical modelling of the aerodynamic interference between helicopter and ground obstacles. The CFD captures the velocity distribution and the flow field structures observed during the wind tunnel tests.

Wind tunnel and CFD study of the natural ventilation performance of a commercial multi

Unsteady rotor simulations with fully resolved blades high fidelity CFD are first performed to validate the flow solver by means of a comparison with experimental data.

Related Books

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