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Coupling of Fluids, Structures and Waves in Aeronautics

NASA Marshall Space Flight Center's Fluid Structure Coupling (FSC) technology is a highly efficient and passive method to control the way fluids and structures communicate and then utilize this control authority to dictate the behavior of a system. Developed to solve a difficult structural dynamics issue of a national asset, the innovation has the demonstrated potential to mitigate a multitude of different types of vibration problems and can be applied anywhere in which internal or external ...

Fluid Structure Coupling - NASA

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Different methods that model fluid-structure coupling have been extensively investigated; see Dowell and Hall (2001) for a comprehensive review. Predictive methods for aero engines or gas turbines are divided into two classes depending on coupling strength (Marshall and Imregun, 1996): classical and integrated. The former combines the fluid and structural equations in an uncoupled way, whereas the latter solves the equations simultaneously.

Fluid-structure coupling for an oscillating hydrofoil ...

Helicopter Fluid-Structure Coupling using preCICE Background: In the rotorcraft field, the aerodynamics and structural dynamics are mutually dependent. In general, the rotor performance and structural loads are modeled by means of comprehensive

rotorcraft analysis tools. These software packages solve the blade motion and the rotor trim conditions. However, the aerodynamic phenomena such as the ...

Helicopter Fluid-Structure Coupling using preCICE

Fluid-structure interaction (FSI) is the interaction of some movable or deformable structure with an internal or surrounding fluid flow. Fluid-structure interactions can be stable or oscillatory. In oscillatory interactions, the strain induced in the solid structure causes it to move such that the source of strain is reduced, and the structure returns to its former state only for the ...

Fluid-structure interaction - Wikipedia

The Journal of Fluids and Structures serves as a focal point and a forum for the exchange of ideas, for the many kinds of specialists and practitioners concerned with fluid-structure interactions and the dynamics of systems related thereto, in any field.

Journal of Fluids and Structures - Elsevier

Fluid-structure coupling At the interface, the Dirichlet and Neumann boundary conditions are satisfied as $(21) \partial u_s \partial t \cdot n = v_f \cdot n, \sigma_s \cdot n = -p_n$. The algorithms in were utilized to compute the fluid load on the CMC structure and the motion of fluid grid in discrete form.

Dynamic and fluid-structure interaction simulations of a ...

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In the study of fluid-structure interaction (FSI) in piping systems, the most significant mechanism is junction coupling, as compared with the other coupling mechanisms, namely Poisson and friction coupling (Wiggert and Tijsseling, 2001) in the more flexible piping systems (Heinsbroek and Tijsseling, 1994, Heinsbroek, 1997). Junction coupling takes place at unsupported discrete points of the piping systems such as unrestrained valves, branches, closed ends, pumps, etc. The main ...

Investigation of fluid-structure interaction with various ...

By neglecting the modification of the flow due to structural displacements on condition that the displacements are small compared to turbulent flow structures or viscous sublayer thickness, the high computational costs of a strong fluid-structure coupling can be saved and the sufficient resolution of the turbulent flow field can be focused on. The coupling between flow field and acoustic field is realized by calculating aeroacoustic source terms from the velocity field at ...

Fluid-structure-acoustic coupling for a flat plate ...

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Intriguingly, the coupling between Asp133 and Asp163 or Asp164 is enabled through the proton-coupled hydrogen-bonding network at the flexible intersection of two disrupted helices. These data resolve the controversy and highlight the intricacy of the compensatory transport mechanism of NhaA mutants. Alternative proton-binding site and proton ...

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