

Principles Of Helicopter Aerodynamics Solutions

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Aeronautical Engineering Review
Aeronautical Engineering
The Aeronautical Journal
Aviation
Aviation Week & Space Technology
Albrecht Eberle Ames Research Center
Herman Deconinck
Earl P. N. Duque
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the last decade has seen a dramatic increase of our abilities to solve numerically the governing equations of fluid mechanics in design aerodynamics the classical potential flow methods have been complemented by higher modelling level methods euler solvers and for special purposes already navier stokes solvers are in use the authors of this book have been working on the solution of the euler equations for quite some time while the first two of us have worked mainly on algorithmic problems the third has been concerned off and on with modelling and application problems of euler methods when we started to write this book we decided to put our own work at the center of it this was done because we thought and we leave this to the reader to decide that our work has attained over the years enough substance in order to justify a book the problem which we soon faced was that the field still is moving at a fast pace for instance because hyper sonic computation problems became more and more important

the international conference on computational fluid dynamics iccfd is the merger of the international conference on numerical methods in fluid dynamics icnmfd since

1969 and international symposium on computational fluid dynamics is CFD since 1985 it is held every two years and brings together physicists mathematicians and engineers to review and share recent advances in mathematical and computational techniques for modeling fluid dynamics the proceedings of the 2006 conference ICCFD4 held in Gent Belgium contain a selection of refereed contributions and are meant to serve as a source of reference for all those interested in the state of the art in computational fluid mechanics

Abstract This paper describes a new method for computing the flowfield and acoustic signature of arbitrary rotors in forward flight the overall scheme uses a finite difference Navier Stokes solver to compute the aerodynamic flowfield near the rotor blades the equations are solved on a system of overset grids that allow for prescribed cyclic and flapping blade motions and capture the interactions between the rotor blades and wake the far field noise is computed with a Kirchhoff integration over a surface that completely encloses the rotor blades flowfield data are interpolated onto this Kirchhoff surface using the same overset grid techniques that are used for the flowfield solution as a demonstration of the overall prediction scheme computed results for far field noise are compared with experimental data for both high speed impulsive HSI and blade vortex interaction BVI cases the HSI case showed good agreement with experimental data while a preliminary attempt at the BVI case did not the computations clearly show that temporal accuracy spatial accuracy and grid resolution in the Navier Stokes solver play key roles in the overall accuracy of the predicted noise these findings will be addressed more closely in future BVI computations overall the overset grid CFD scheme provides a powerful new framework for the prediction of helicopter noise

a selection of annotated references to unclassified reports and journal articles that were introduced into the NASA Scientific and Technical Information System and announced in Scientific and Technical Aerospace Reports STAR and International Aerospace Abstracts IAA

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