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# Vortex wakes of Aircrafts



Springer

# **Vortex Wakes Of Aircrafts Foundations Of Engineering Mechanics**

Jianjun Gao

#### **Vortex Wakes Of Aircrafts Foundations Of Engineering Mechanics:**

Vortex wakes of Aircrafts A.S. Ginevsky, A. I. Zhelannikov, 2009-07-07 Investigation of vortex wakes behind various aircraft especially behind wide bodied and heavy cargo ones is of both scientific and practical in terest The vortex wakes shed from the wing s trailing edge are long lived and attenuate only atdistances of 10 12kmbehindthe wake generating aircraft The encounter of other aircraft with the vortex wake of a heavy aircraft is open to catastrophic hazards For example air refueling is adangerous operation partly due to the possibility of the receiver aircraft's encountering the trailing wake of the tanker aircraft It is very important to know the behavior of vortex wakes of aircraft during their takeoff and landing operations whenthe wakes canpropagate over the airport s ground surface and be a serious hazard to other depart ing or arriving aircraft This knowledge can help in enhancing safety of aircraft's movements in the terminal areas of congested airports where the threat of vortex encounters limits passenger throughput Theoreticalinvestigations of aircraft vortex wakes are being intensively performed in the major aviation nations. Used for this purpose are various methods for mathematical modeling of turbulent flows direct numerical simulation based on the Navier Stokes equations large eddy simulation using the Navier Stokes equations in combination with subrigid scale modeling simulation based on the Reynolds equations closed with a differential turbulence model These approaches are widely used in works of Russian and other countries scientists It should be emphasized that the experiments in wind tunnels and studies of natural vortex wakes behind heavy and light aircraft in flight experiments are equally important Flight Performance of Fixed and Rotary Wing Aircraft Antonio Filippone, 2006-05-10 Calculation and optimisation of flight performance is required to design or select new aircraft efficiently operate existing aircraft and upgrade aircraft It provides critical data for aircraft certification accident investigation fleet management flight regulations and safety This book presents an unrivalled range of advanced flight performance models for both transport and military aircraft including the unconventional ends of the envelopes Topics covered include the numerical solution of supersonic acceleration transient roll optimal climb of propeller aircraft propeller performance long range flight with en route stop fuel planning zero gravity flight in the atmosphere VSTOL operations ski jump from aircraft carrier optimal flight paths at subsonic and supersonic speed range payload analysis of fixed and rotary wing aircraft performance of tandem helicopters lower bound noise estimation sonic boom and more This book will be a valuable text for undergraduate and post graduate level students of aerospace engineering It will also be an essential reference and resource for practicing aircraft engineers aircraft operations managers and organizations handling air traffic control flight and flying regulations standards safety environment and the complex financial aspects of flying aircraft Unique coverage of fixed and rotary wing aircraft in a unified manner including optimisation emissions control and regulation Ideal for students aeronautical engineering capstone projects and for widespread professional reference in the aerospace industry Comprehensive coverage of computer based solution of aerospace engineering problems the critical analysis of performance

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In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has be much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "Vortex Wakes Of Aircrafts Foundations Of Engineering Mechanics," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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