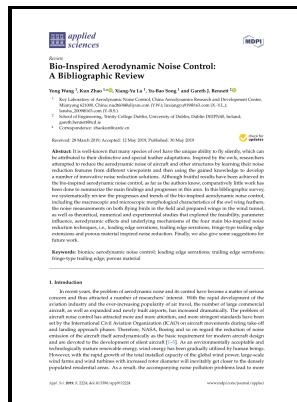


Review of aerodynamic noise

Institute of Aerophysics - Measurement and Evaluation of Aerodynamic Noise



Description: -

- Aerodynamic noise review of aerodynamic noise

- Sale no. W02826

UTIA review -- no. 8 review of aerodynamic noise

Notes: Includes bibliographical references.

This edition was published in 1955



Filesize: 36.38 MB

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Modern problems of aircraft aerodynamics

J Wind Eng Ind Aerodyn 118: 12-19. It is known that, the development of aircrafts, ships and high speed ground transport stimulates investigations directed on finding possibilities of lowering of drag for moving objects. It is as a physicist turned aerodynamicist turned acoustician that I feel a certain kinship to Turnbull.

Airplane Noises Explained for the Nervous Traveler

Techniques for mitigation of trailing edge noise, tip noise and leading-edge inflow noise have been discussed along with recent developments. Potentially, passenger aircrafts of flying wing layout possess three advantages: higher lift-to-drag ratio due to smaller relative wetted area, favorable distribution of mass load along wingspan and relatively small ground noise level for configurations with engines located above airframe. As either a pollutant or a pulverizer it may well become the limiting factor in the design and operation of virtually every type of future aircraft, with the possible exception of those used for primary training and private flying.

Reduce Aerodynamic Noise

Phys Fluids A: Fluid Dyn 3: 188-200. In a sociological sense it is regarded as a technological pollutant, while from an engineering point of view it is regarded often as a powerful mill ready to grind to grist the weak or the unwary. Journal of Low Freq Noise Vib Active Control 37 3 :590—610.

A review of the key sensitive parameters on the aerodynamic performance of a horizontal wind turbine using Computational Fluid Dynamics modelling

It is easy to imagine Turnbull in later times turning his. This attenuation is composed of two additive effects: classical absorption due to transport phenomena, and molecular absorption due to relaxation effects.

Phys. Rev. Fluids 4, 123902 (2019)

Aircraft have such a high level of excess thrust that if the engines were left at their climb setting, the airplane would accelerate to well beyond the speed of sound.

Aerodynamic noise reduction of circular cylinder by longitudinal grooves

J Sci Comput 1: 3-51.

Aerodynamic Effects as a Maglev Train Passes Through a Noise Barrier

The impact of the first two in transonic speeds region reaches up to 50 and 40% of full drag correspondingly.

Aerodynamic Effects as a Maglev Train Passes Through a Noise Barrier

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