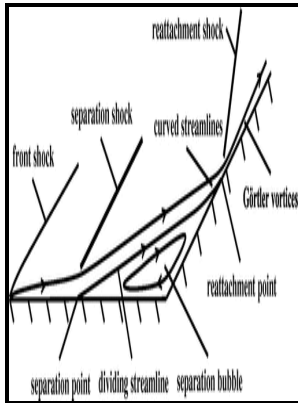


On the instability of Gortler vortices to nonlinear travelling waves

Institute for Computer Applications in Science and Engineering - Tollmien



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Travelling waves
Gortler vortices
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Notes: Includes bibliographical references: p. 25-26.
This edition was published in 1990



Filesize: 58.57 MB

Tags: #Visualizing #Görtler #vortices

Weakly Nonlinear Analysis of Vortex Formation in a Dissipative Variant of the Gross

The cases of isolated and distributed roughness elements are investigated and the coupling coefficient which relates the amplitude of the forcing and the induced vortex amplitude is found asymptotically in the small wavelength limit. We also carefully consider the role played by the quintic nonlinearity modeling the strength of inter-atomic coupling in modifying the solutions arising due to a purely cubic interaction term.

On the Receptivity Problem for Gortler Vortices: Vortex Motions Induced by Wall Roughness on JSTOR

Schubauer and Skramstad overlooked the significance of the co-generation of transverse SH sound by the T-S waves in transition and turbulence.

On the Secondary Instability of the Most Dangerous Görtler Vortex

Hatsari Mitsudharmadi: He obtained his Master of Engineering MEng degree in Mechanical Engineering from National University of Singapore and currently he is pursuing a Ph. They can occur in the presence of steady forcing—no precursor tropospheric pulse of planetary wave energy is necessary.

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The precise form of the relevant formula, obtained through our asymptotic analysis, provides the most unstable mode as a function of the atomic density and the trap strength. These waves, originally discovered by , were further studied by two of his former students, and after whom the phenomenon is named. Numerical simulations, under a variety of external confining potentials, are then used to understand the role these potentials play on the BEC solution structure for both the attractive and repulsive regimes.

On the Receptivity Problem for Gortler Vortices: Vortex Motions Induced by Wall Roughness on JSTOR

Cite this paper as: Otto S. These waves are slowly amplified as they move downstream until they may eventually grow large enough that nonlinearities take over and the flow transitions to turbulence.

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