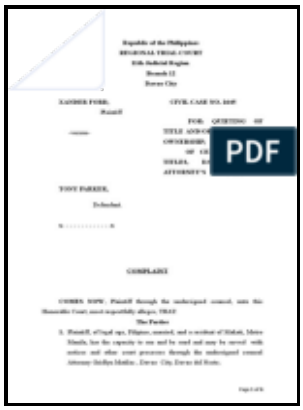
Multiple paths to subharmonic laminar breakdown in a boundary layer

Institute for Computer Applications in Science and Engineering - A comparison of laminar



Description: -
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Talmud. -- Mo'ed ḳaṭan -- Commentaries
Boundary layer transitionMultiple paths to subharmonic laminar breakdown in a boundary layer
-Multiple paths to subharmonic laminar breakdown in a boundary layer
Notes: Includes bibliographical references: p. 6.
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Tags: #Laminar #Separation #Control #by #Boundary #Layer #Excitation

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In both cases, disturbance forcing is localized slightly downstream of the leading edge of the flat plate. Spectral methods for inviscid, compressible flows, with M. Mankbadi, 12th AIAA Non-Deterministic Approaches Conference, Orlando, Florida, USA, 12-15 April 2010.

Aspects of Laminar Breakdown in Boundary

Okten, in Monte Carlo and Quasi-Monte Carlo Methods 2014 , Ronald Cools and Dirk Nuyens editors , Springer-Verlag, 2015.

Physical Mechanisms of Laminar

Experiments on the stability of crossflow vortices in swept-wing flows. Navier-Stokes computations of pressure-gradient effects on transition in a boundary layer.

Aspects of Laminar Breakdown in Boundary

High-Fidelity Numerical Simulation of a Chevron Nozzle Jet Flow, with A. Lasseigne, Physics of Fluids A, 1993, 5: 1047-1058.

Physical Mechanisms of Laminar

Streamwise vortices of approximately the strength of those that might be found in transition experiments can explain the difficulty in experimentally identifying the subharmonic route to turbulence Herbert 1983~. Propulsion and Power, 1989, 5 5 : 514-522. It is generally accepted that the transition from laminar to turbulent flow occurs because of an incipient instability of the basic flow field.

Publications

Dynamics of fire plumes in vertical shear, with P. When comparing the solutions of the OSE with experiments, the dimensionless frequency, F. The idea of transition control through active feedback systems is an area Hat has received considerable recent attention Liepmann and Nosenchuck, 1982; Thomas, 1983; Kleiser and Laurien, 1984, 1985; Metcalfe et al.

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Zang, Numerical Algorithms, 2005, 38: 209-236. This favorable viscous force competes with adverse pressure gradient and in its absence; a boundary layer starting into an adverse pressure gradient would separate immediately.

Related Books

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