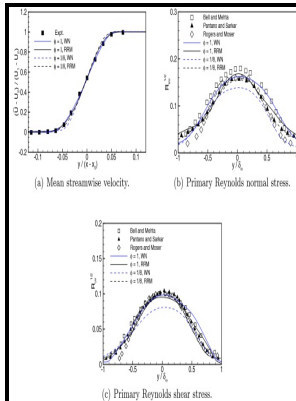


Response of a chemically reacting layer to streamwise vorticity

National Aeronautics and Space Administration, Lewis Research Center - Topology of the vorticity field in three



Description: -

- Metallurgy
Material Science
Science/Mathematics
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Fluid mechanics.Response of a chemically reacting layer to streamwise vorticity

- NASA technical memorandum -- 102288.Response of a chemically reacting layer to streamwise vorticity
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This edition was published in 1990



Filesize: 59.73 MB

Tags: #Response #of #a #chemically #reacting #shear #layer #to #streamwise #vorticity

Direct Simulation of Particle Dispersion in a Three

The interaction and coupling of these various 2D and 3D modes is shown to significantly alter the development of the flow. The coherent structures in a plane mixing layer between two parallel streams were numerically simulated using a pseudo-spectral method.

Topology of the vorticity field in three

In this way, the formation and evolution of streamwise vortex tubes and their interaction with the spanwise vortices are analyzed.

Spanwise domain effects on streamwise vortices in the plane turbulent mixing layer

The streamwise structure is artificially confined when its wavelength matches that of the spanwise domain extent, and a criterion for confinement is postulated.

Topology of the vorticity field in three

The flow was studied numerically by means of three-dimensional inviscid vortex dynamics.

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