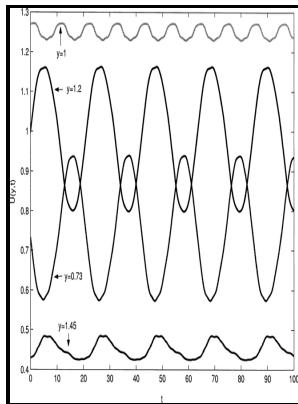


Multiwave interactions in turbulent jets

Institute for Computational Mechanics in Propulsion - Multi



Description: -

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 - Wave interaction
- Turbulent jetsMultiwave interactions in turbulent jets
-Multiwave interactions in turbulent jets
Notes: Bibliographical references: p.32-34.
This edition was published in 1989



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Behavior of Multiple

As will be discussed in the next section, at least within the parameter space that we examine, the above inequality is never satisfied. In addition to diagnostic studies, conducts an initial-value calculation in which waves propagate into a preexisting blocking pattern. Similar bifurcation properties are revealed when we use the eddy zonal wavenumber, k , as the bifurcation parameter rather than the stochastic forcing magnitude $\|\mu\|$.

Numerical study of shock wave interaction on transverse jets through multiport injector arrays in supersonic crossflow

Introduction Obtaining a physical understanding of the low-frequency variability LFV of the midlatitude atmosphere at synoptic and planetary scales is a central problem in dynamic meteorology. From the bifurcation diagram for the ensemble mean dynamics shown in we see that at wavenumber 5 corresponding to zonal wavenumber 8 at 45° latitude the jet equilibrates to one of the two possible equilibria, while at wavenumber 6 the mean jet vacillates in a limit cycle. Continuous lines are the maximum growth rate of perturbations to the symmetric equilibrium and the asymmetric equilibria from eigenanalysis of L ; dashed lines are the maximum growth rate of perturbations to the symmetric equilibrium obtained from the adiabatic operator L_{ad} .

Low

A very important property of the ensemble mean and of their finite ensemble counterpart is their global stability, that is, that both the perturbations field covariances and the zonal jets remain bounded for all times. The mean flow is in a limit cycle.

Finite

Previous studies show that the STM is in fact able to accurately reproduce the structure and spectra of midlatitude atmospheric eddies and their associated fluxes ; As the supercriticality decreases i. The proof is given in the.

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However, the interaction is not one way.

Finite

However, in this study an artificial wavemaker is needed to generate the eddies that support the modon.

Multi

The ensemble average is over an infinite number of realizations of p , whose structure depends on the particular realization of the noise n_t .

Finite

The PV flux used for EXP1 EXP2 is the solid dashed line in. There are no other equilibria in this case. The author also acknowledges beneficial correspondence with Orl Lachmy and Nili Harnik.

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