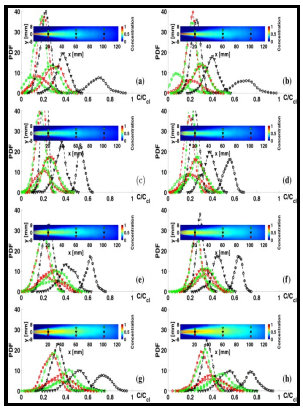
Multiwave interactions in turbulent jets

Institute for Computational Mechanics in Propulsion - Finite



Description: -
-
Wounds and Injuries -- therapy
Military Medicine -- organization & administration
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Medicine, Military
Emergency medicine
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

Tags: #Shock #wave/turbulence #boundary #layer #interaction #control #with #the #secondary #recirculation #jet #in #a #supersonic #flow

Structural Stability of Turbulent Jets in: Journal of the Atmospheric Sciences Volume 60 Issue 17 (2003)

In the atmosphere, and in numerical models with a full zonal wave spectrum, Rossby waves are, more often than not, organized into wave packets ; ;. The ensemble average is over an infinite number of realizations of p, whose structure depends on the particular realization of the noise n t.

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We begin by examining the lower-layer budget see. This change in the phase tilt has a substantial impact on the Ekman pumping, as it weakens the damping on the lower-layer wave for some parameter settings and enables the Ekman pumping to serve as a source of wave growth at other settings.

Low

In addition, the streamfunction tendency has shifted upstream and is out of phase with the block. Second-order accurate finite difference operators on a uniform grid are used to represent all derivatives.

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It can be seen that the rise in Ïµ1 by the upper-layer generation term is followed 15 days later by an enhancement in Ïµ2 by the Ekman pumping.

Low

Although atmospheric general circulation model AGCMs simulate the strength and location of the storm tracks, there is disagreement among them regarding LFV. This effect reduces the impact of Ekman damping on the lower layer potential enstrophy.

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The model is now completely specified.

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