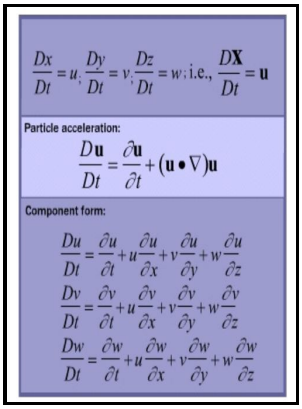
On Taylors hypothesis and the acceleration terms in the Navier-Stokes equations

U.S. Naval Ordnance Laboratory - On the Taylor hypothesis corrections for measured energy spectra of turbulence



Description: -
-On Taylors hypothesis and the acceleration terms in the Navier-Stokes equations
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Heilongjiang da xue E yu yu yan wen xue yan jiu zhong xin xue shu cong shu
NAVORD report -- 2306On Taylors hypothesis and the acceleration terms in the Navier-Stokes equations
Notes: Bibliographical references: p. 14.
This edition was published in 1952

Tags: #Taylor's #Hypothesis

Beyond Taylor's hypothesis: a novel volumetric reconstruction of velocity and density fields for variable

Table summarizes the most important parameters of the two flow regions.

Taylor's Hypothesis

The vertical cross-correlation ρ ww Δz,τ did not show this behaviour indicating that changes in the vertical velocity component, on average, occur simultaneously at all levels.

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This suggests that both the fluctuations on the convective velocity and the spatial gradients on the mean velocity profile are not negligible with respect to the convection given by the local mean streamwise velocity. These are detailed below and in manuscript appended to this executive summary. The data considered in a and b are the same Particular care needs to be taken for the interpolation of the data at the boundaries.

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All steps of the reconstruction algorithm have been implemented in MATLAB ®. These paths are the whose derivative at each point is equal to the vector field, and they can represent visually the behavior of the vector field at a point in time. When the curvature correction, Eq.

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Futhermore, to correctly compare with numerical results, we convert the time direction into a longitudinal direction with the Taylor hypothesis: To validate the mean velocity, turbulent intensities and Reynolds stresses fields deduced from numerical approach, we compare some profiles in sections multiple of the step height H with the ones obtained by Laser doppler velocimetry technique figure 2.

Beyond Taylor’s hypothesis: a novel volumetric reconstruction of velocity and density fields for variable

KHNP, the owner of all 21 of South Korea's operating nuclear power reactors, has held a licensee relationship with Westinghouse since the late 1980s when the US-based company supplied the 945 MWe System 80 nuclear steam supply for Yonggwang 3 and 4. This experimental campaign required numerous practical solutions to successfully and rapidly deploy this very sensitive table-top diagnostic in-situ.

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