

1051-76-60

Lokenath Debnath* (debnath1@utpa.edu), University of Texas-Pan American, Department of Mathematics, 1201 West University Drive, Edinburg, TX 78539-2999. *Fourier Transforms and Wavelet Transforms in Turbulence.*

Some problems in the study of turbulence will be presented. Turbulence based on the Euler equations and the Navier-Stokes equations will be discussed. Included are the Fourier and the wavelet transforms analysis of turbulent flows. (Received August 11, 2009)