

# Turbulence Modeling For Cfd

L Manion

*What does "eddy" mean in turbulence?* - *Physics Stack Exchange* Sep 26, 2022 · a newbie in turbulence study, very confused about the concept of eddy, I feel the word "eddy" having two meanings in fluid-mechanics maybe more and i'm not sure ...

*fluid dynamics - What is enstrophy?* - *Physics Stack Exchange* Note that the vortex stretching -> turbulence cascade connection in the enstrophy -> vortex stretching -> turbulence cascade is a jump I made, not the text. Not sure how valid it is, iirc it's ...

**What's the shear rate in a turbulent flow?** - **Physics Stack Exchange** Dec 12, 2013 · The explanation of shear rate in laminar flow is straightforward: We imagine small layers of fluid that glide on each other. Now, in turbulent flow, this does not work as there are ...

**What are the length and time scales in turbulence?** Oct 1, 2013 · I haven't been able to understand what does someone mean by length and time scales, while talking about turbulence. Can someone explain it?

**What causes drag crisis?** - **Physics Stack Exchange** May 16, 2023 · While, the Wikipedia article on Turbulence states: In general terms, in turbulent flow, unsteady vortices of many sizes appear which interact with each other; consequently, ...

*What is the mystery of turbulence?* - *Physics Stack Exchange* Mar 11, 2013 · What is called turbulence are precisely those states where the flow is irregular. However as this transition to turbulence depends on the constituents and parameters of the ...

*What causes wind gusts?* - *Physics Stack Exchange* Dec 26, 2022 · In this Wikipedia article, Turbulence is caused by excessive kinetic energy in parts of a fluid flow, which overcomes the damping effect of the fluid's viscosity. For this reason ...

**Taylor's hypothesis in turbulence** - **Physics Stack Exchange** Feb 12, 2022 · The "Taylor Hypothesis" is founded on the idea that the changes observed in any given measured in the propagate at speeds much much less than the bulk flow speed of the ...

**Why is turbulence dissipation  $\epsilon$  defined this way?** Oct 3, 2020 · This term is turbulence kinetic energy dissipation rate  $\epsilon$ , which represents the rate at which Kolmogorov eddies energy is converted back into the flow's internal energy. I ...

**turbulence - Physical Explanation for "Kolmogorov -5/3 spectrum"** ... Aug 4, 2011 · According to Kolmogorov, the energy spectrum function of a turbulent fluid is given as,  $E(k) = C \epsilon^{\frac{2}{3}} k^{-\frac{5}{3}}$  where  $\epsilon$  is the ...

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