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*MODELING: Turbulence* [**Fluid Dynamics: Turbulence Models**]

**One-equation turbulence models** [~~Fluid Dynamics: Turbulence Models~~]

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Mod-01 Lec-41 Introduction to Turbulence Modeling

**Mod-01 Lec-26 Turbulence**

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~~Fine should my CFD mesh be?~~

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Navier-Stokes) Advanced CFD  
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cascade Advanced CFD course:  
calibrating eddy viscosity  
and Mixing Length model~~

## **WHAT IS CFD: Introduction to Computational Fluid Dynamics**

~~Introduction to stationary  
turbulence modeling (RAS) -  
Part 1 Turbulence Model:  
URANS vs LES [CFD] The  
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[Fluid Dynamics: Turbulence  
Models] Zero-equation  
turbulence models, Part I,  
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Zero-equation models, Part

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2: Algebraic turbulence models [Fluid Dynamics: Turbulence Models] A brief history, Part I: Pre-

computer age Mod-09 Lec-03

RANS Turbulence Models and Large Eddy Simulation [Fluid Dynamics: Turbulence Models]

Basic equations, Part II, Turbulent transport equations [Fluid Dynamics: Turbulence Models]

Two-equation models, Part II, Enhanced turbulence models (2/2) Lec 25: Turbulence Modeling Using  $k-\epsilon$  Model

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models. A turbulence model  
is a procedure to close the  
system of mean flow  
equations. For most  
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is unnecessary to resolve  
the details of the turbulent  
fluctuations. Turbulence

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models allow the calculation  
of the mean flow without  
first calculating the full  
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resolve the largest scales  
of turbulence and model the  
rest by use of sub-grid  
turbulence models or by  
blending with a RANS model.  
Positives: Buoyancy

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All turbulence models in  
COMSOL Multiphysics, except  
the k- $\epsilon$  model, support  
automatic wall treatment.  
This means that the low  
Reynolds number models can  
be used for industrial  
applications and that their  
low Reynolds number modeling  
capability is only invoked  
when the mesh is fine  
enough. About the Various  
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