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Turbulence Models and Their Applications. Turbulence models. A turbulence model is a procedure to close the system of mean flow equations. For most engineering applications it is unnecessary to resolve the details of the turbulent fluctuations. Turbulence models allow the calculation of the mean flow without first calculating the full time-dependent flow field.

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The first model to describe the distribution of the eddy viscosity, and thus the first proper turbulence model, was suggested by L.

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Prandtl in 1925 and is known as the Prandtl mixing-length hypothesis. Algebraic stress models are useful tools between the isotropic-eddy viscosity models and the stress / flux equation models.

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