Appendix 1

1. **Incomplete list of turbulence models and references**

Incomplete list of turbulence models

- The following is an incomplete list of RANS/URANS/RSM turbulence models.

- Have in mind that some of the models have many variants.

  - Cebeci-Smith.

  - Baldwin-Lomax.

  - Johnson-King.

  - Bradshaw-Ferris-Atwell.

  - L-VEL.

  - Prandtl mixing length.

  - Van-driest mixing length.

  - Prandtl one equation.

  - Nee-Kovasznay.

  - Baldwin-Barth.

  - Spalart-Allmaras.

  - Secundov Nut-92.

  - Wolfshtein.

Incomplete list of turbulence models

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- Have in mind that some of the models have many variants.

  - Norris-Reynolds.

  - Wray-Agarwal.

  - Rotta k-kl.

  - Standard K-Epsilon.

  - RNG K-Epsilon.

  - Realizable K-Epsilon.

  - Myong-Kasagi K-Epsilon.

  - Launder-Sharme K-Epsilon.

  - Lam-Bremhorst K-Epsilon.

  - Jones-Launder K-Epsilon.

  - Chien K-Epsilon.

  - Lien-Leschziner K-Epsilon.

Incomplete list of turbulence models

- The following is an incomplete list of RANS/URANS/RSM turbulence models.

- Have in mind that some of the models have many variants.

  - Speziale K-Epsilon.

  - Rubinstein-Barton.

  - Gatski-Speziale.

  - Lien-Chien-Leschziner.

  - Apsley-Leschziner.

  - Saffman-Spalding k-Omega.

  - Kolmogorov 1942 K-Omega.

  - Wilcox 1988 K-Omega.

  - Wilcox 1998 K-Omega.

  - Wilcox 2006 K-Omega.

  - Menter 2003 K-Omega SST.

  - Langtry-Menter K-Omega.

Incomplete list of turbulence models

- The following is an incomplete list of RANS/URANS/RSM turbulence models.

- Have in mind that some of the models have many variants.

  - K-e-Rt.

  - K-e-zeta-F.

  - Q-Zeta.

  - Pope EARSM.

  - Walin-Johansson EARSM.

  - Mishra-Girimaji.

  - Wilcox RSM.

  - LRR RSM.

  - SSG RSM.

  - GLVY RSM.

  - Craft cubic model.

Incomplete list of turbulence models

- The following is an incomplete list of RANS/URANS/RSM turbulence models.

- Have in mind that some of the models have many variants.

  - Gibson-Launder.

  - Craft-Launder.

  - Shima.

  - V2-f

  - Gamma-Re-Theta.

  - LCTM.

  - K-Kl-Omega.

  - Transition SST.

  - GEKO.