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[Home](#) > Advanced Wall Treatment Method for Turbulent Flow CFD Simulations

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The advanced model is a combination of a modified low Reynolds number k-epsilon turbulence model and a wall treatment formalism that accounts for temperature gradient induced material property effects on wall shear stress and heat flux. The advanced wall treatment formalism also enables more accurate turbulent source term computation in the wall adjacent cells. Furthermore, the advanced model is not restricted by the usual near wall grid resolution requirements of the standard high and low Reynolds number turbulence models.

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Industries:

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[STAR European Conference 2011](#)^[2]

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