Hi, I am new to CFD. Thank you LEAP CFD team for explaining wall functions. I would like to know the yplus value to be maintained for conjugate heat transfer analysis and which turbulent model can give results close experimental results. If you help me out, I am very thankful to you.

Software for Heat Transfer
Analysis The thermal solver at the core of THESEUS?FE can look back on a successful history of over 30 years. This makes THESEUS?FE one of the oldest and most mature CAE tools in the field of numerical thermal simulations. Library of computational fluid dynamics (CFD) simulations, thermal analysis (heat transfer simulations), ANSYS, Fluent and CFX simulations, OpenFOAM simulations, Lattice Boltzmann methods (LBM) simulations, aerodynamic analysis, ...

Shell New Energies will acquire Savion from Macquarie’s Green Investment Group and the transaction is expected to close by the year-end. Savion specialises in developing solar power and energy storage projects and has more than 18GW of solar and battery storage under development for utilities and major commercial and industrial companies.

I am modeling a shell and tube heat exchanger and I am having problem with pressure drop on shell side. My analytical calculations give pressure drop of 470 Pa while Fluent gives 2300 Pa. Average Y+ value on tube walls is 20. Turbulence model is K-e with standard wall functions. Kindly help me in this issue. Thanks.

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The structural analysis program RFEM allows easy and effective modeling as well as structural analysis and design of 2D and 3D structures consisting of member, plate, wall, shell, folded plate, and solid elements. It is also possible to process combined structures as well as solid and contact elements.

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safe performs both strain and stress based fatigue calculations, incorporating many different fatigue algorithms (uniaxial strain and stress based, biaxial strain and stress based, advanced thermomechanical fatigue, elastomer fatigue, fatigue of welds etc.). The purpose of this course is to teach the basic tools and methods for generating meshes with Ansys ICEM CFD Tetra- Prism and HEX A. The course presents best-practice meshing techniques and the tools required to efficiently generate high-quality meshes based on tetrahedral / prismatic and hexahedral elements.

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