

Wind Blade Analysis for Wind Power - Numerical Solution

Author(s): Zachary Brothers, Cornell University

Problem Specification

1. Pre-Analysis & Start-Up

2. Geometry

3. Mesh

4. Physics Setup

5. Numerical Solution

6. Numerical Results

7. Verification & Validation

Exercises

Comments

Numerical Solution

This page has been moved to <https://courses.ansys.com/index.php/courses/wind-blade-analysis-for-wind-power-using-ansys-fluent/lessons/numerical-solution-lesson-6-18/>

Click in the link above if you are not automatically redirected in 10 seconds.

Note for students who are recomputing solutions for different tip speed ratios: after changing the rotation rate under "Cell Zone Conditions," recalculate the solution WITHOUT redoing the initialization. If you initialize from the inlet again, it will once again take 1300 iterations or so to converge, but if you recalculate from the previous solution, it will take a fraction of that time

[Go to Step 6: Numerical Results](#)

[Go to all FLUENT Learning Modules](#)