

Wind Turbine Blade - Numerical Solution

Author: Ben Mullen, Cornell University

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Numerical Solution



This tutorial is not being updated any more. We recommend that you follow [this newer tutorial](#) on fluid-structure analysis of a wind turbine blade. Thank you!

Deformation

To add deformation to the solution, first click   **Solution (B5)** to add the solution sub menu to menu bar. Now in the solution sub menu click **Deformation > Total** to add the total deformation to the solution. It should appear in the outline tree.

Equivalent Stress

In the solution sub menu, select **Stress > Equivalent (von-Mises)**. In the details pane, ensure **Geometry** is set to **All Bodies**.

Normal Stress

In the solution sub menu, select **Stress > Normal**. In the details pane, ensure **Orientation** is set to **X Axis**, and **Geometry** is set to **All Bodies**. Rename the Stress to **StressXX** by right clicking **Normal Stress** in the *Outline* window and selecting **Rename**.

We are ready to solve the simulation. Press



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