

What we Simulate:

- Structural analysis of pulley.
- Safety factor calculations for infinite fatigue life.
- Tool: Ansys Workbench

Pulley (Automotive) E

Pulley

Case:

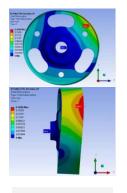
- Stiffness calculations.
- Load calculations.
- Stress evaluation.
 - Pressure & Displacement load.
 - Hydrotest pressure load.
- Fatigue life Calculations.

Output:

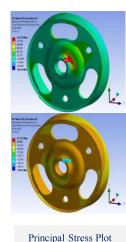
- Stress & deformation Plot.
- Stress linearization.
- Fatigue life.



Mesh Model









What we Simulate:

- Structural strength.
- Tool: Hypermesh, Ansys

Lifting pin (Heavy)

Lifting Pin

Case:

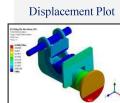
Linear & non-linear Static Structural Analysis (ASME BTH-1)

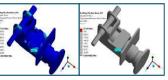
Output:

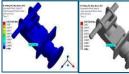
Stress, Total strain, Plastic strain, deformation Plot for Structural Simulation.



Structural Analysis (Radial Hub load)







Stress Plot

Plastic-Strain Plot