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Perform steady state analysis to predict the thermal equilibrium temperatures within a structure. Perform transient analysis to gain in-depth understanding of the temperature fluctuations throughout a representative operating cycle. Accurately simulate the effect of temperature dependent loads and material properties. Model complex interactions among thermal, structural, and/or electrical environments.

Prerequisites

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We will need to run the steady state model and use the result as the initial condition for the transient analysis. Right click on Steady-State Thermal (A5) > Insert > Temperature. Select the entire Shell body and set the temperature to 22 degrees Celsius. Create another temperature boundary condition but select the Specimen instead. Set the temperature of the Specimen to -273.15 degrees Celsius. Right click on Solution (A6) > Insert > Thermal > Temperature.

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