

In class assignment 3

This assignment will be used to help you compare an analytical stress analysis to a stress analysis performed using finite element analysis.

Complete an **analytical stress analysis** on a flat plate with a hole drilled through the geometric center of the plate.

The plate dimensions are:

Length	=	5.00	inches
Width	=	2.50	inches
hole diameter	=	0.50	inches
thickness of plate	=	0.125	inches

The plate is in tension with a 300 lb. force imposed on the face of both ends of the plate.
The plate material is steel.

