

Due: 8:30 a.m. November 16, Tuesday, 2021 (No late homework accepted)

1. [Extra 50 points] Using the ABAQUS tutorial and your notes from Lecture 10, solve a 2D solid mechanics problem of your choice. State your boundary conditions clearly and report the values of your von Mises stress in a contour plot. Assume the material behavior to follow the hyperelastic Mooney-Rivlin model with the following parameters:

$$C_{10} = 0.39$$

$$C_{01} = 0.015$$

$$D_1 = 10^{-5}$$

Feel free to stop by during office hours if you have questions on the software or on how to connect remotely to the server.