

## Homework 01

### Question 01

An aluminum cylinder ( $E=70$  GPa,  $\nu=0.33$ ) with outer diameter of 300 mm and inner diameter of 100 mm is to be press-fitted over a solid steel shaft ( $E=200$  GPa,  $\nu=0.29$ ).

Maximum diametral interference at the interface between aluminum cylinder and steel shaft is 0.093 mm. Calculate the resulting contact pressure at the interface.