Homework Problem H32.B

Given: Two identical rubber pads (having $h \times b$ rectangular cross sections) transmit a load P applied to a rigid plate to a fixed support. The shear modulus of the rubber material making up the pads is G.

Find: For this problem:

- a) Determine the average shear stress on the pads on the top/bottom surfaces of the pad resulting from the applied load *P*.
- b) Determine the average shear strain in the rubber material.

For this problem, use the following parameters: G = 0.3 MPa, b = 60 mm, h = 30 mm, t = 150 mm and P = 500 N.

