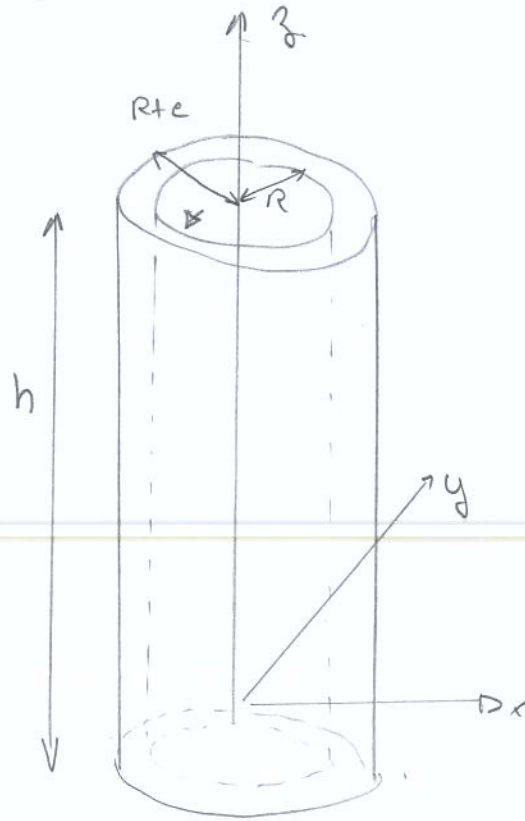


Proble on stress

We consider a circular tube (h, R) thickness $= e$. It is submitted to an internal pressure p , gravity is neglected (as well as atmospheric pressure)



Q1) Verify that a static solution does exist?

We assume that $\underline{\sigma}$ does only depend on r (the polar radius)

Q2) Find all the local equations satisfied by $\underline{\sigma}(r)$ that define the static admissibility? Prove that $\sigma_{rz} = 0$ with the assumption $\underline{\sigma}(r)$.