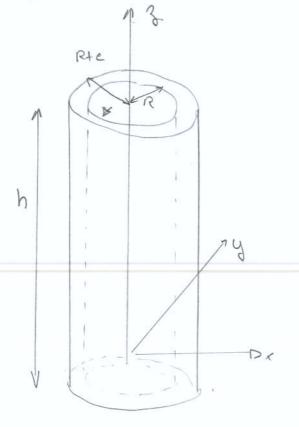
Prochie on shones

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



911 Verify that a state solution does exist?

We assume that I does only depend on T (The polar radius).

92) Find all the local equations solistied by I (r) that

define the static admissibility? Inverthat Tro=0 with.

Re assumption of (r)?

R1 Existence: = D the shubbre should be under global equilibrium. (We will some book on this when we disaus about variations of formulo hors). Pext-DD = 0 (Sum of external forces) Mext-DD= 2 (sum of external moments). $\frac{R}{ext} \rightarrow 2 = \int \frac{\pi}{2} \cdot (-e_r) ds = \int \frac{e_r}{ds} = \int \frac{e_r}{s} = \int$ = pRh / 2 = 0

$$= PRh \int_{0}^{2} e_{r} d\theta = 0$$

5-0-6-6.

LD | Jrr (R) = - P | Jro (R) = 5 rg (R) = 0

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(8) =D
$$\frac{1}{r} \left(r^2 \sigma_{ro} \right)_{,r} = 0 = D$$
 $\sigma_{ro} = \frac{K_1}{r}$