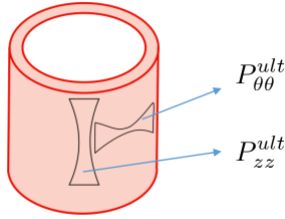


1 A first estimate of aneurysm rupture risk

1.1 Estimating tissue strenght based on a uniaxial tensile test

The tissue strenght is here defined as the ultimate stress value obtained in a uniaxial tensile test, before damage occurs. Since uniaxial tensile tests were performed on circumferentially ($P_{\theta\theta}^{ult}$) as well as axially (P_{zz}^{ult}) oriented samples, we can define the strength in the circumferential as well as in the axial direction.



The reaction forces were plotted against the tensile extension.

