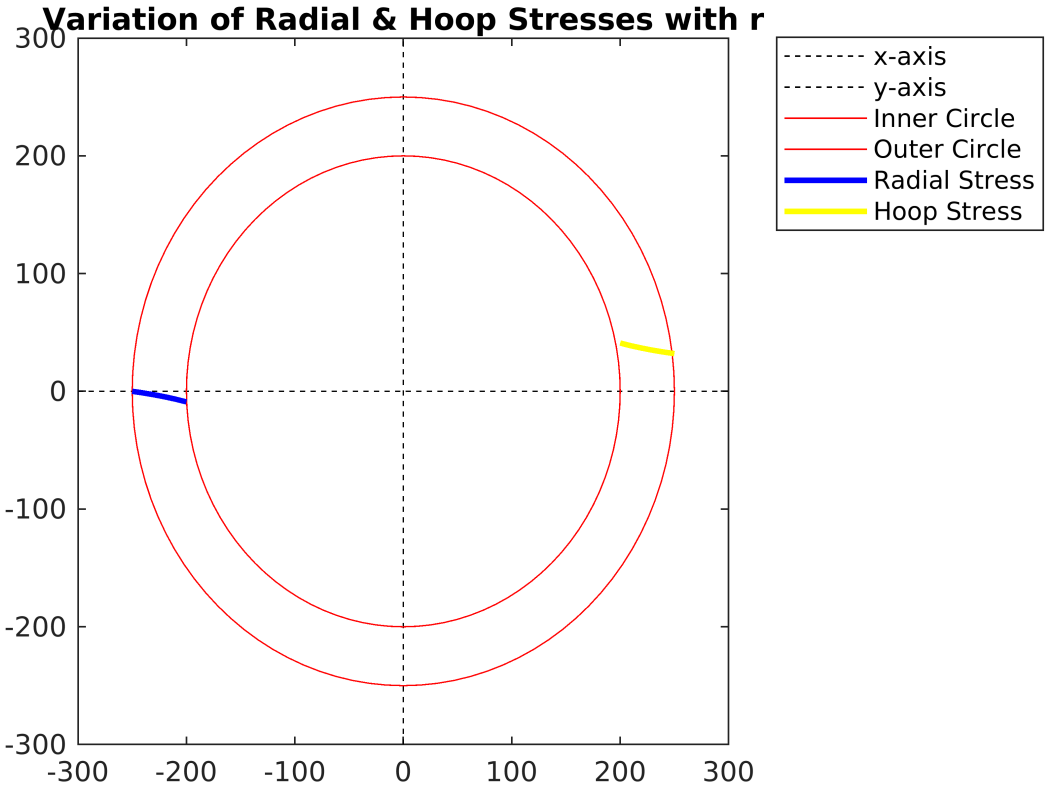
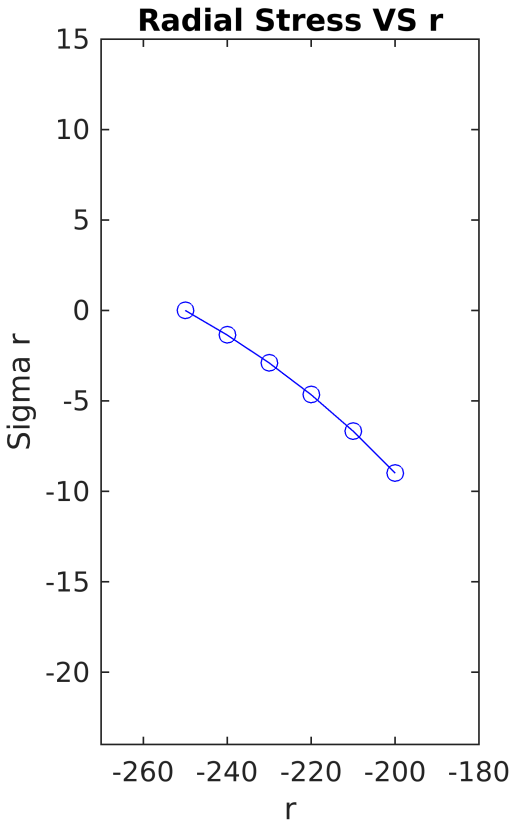
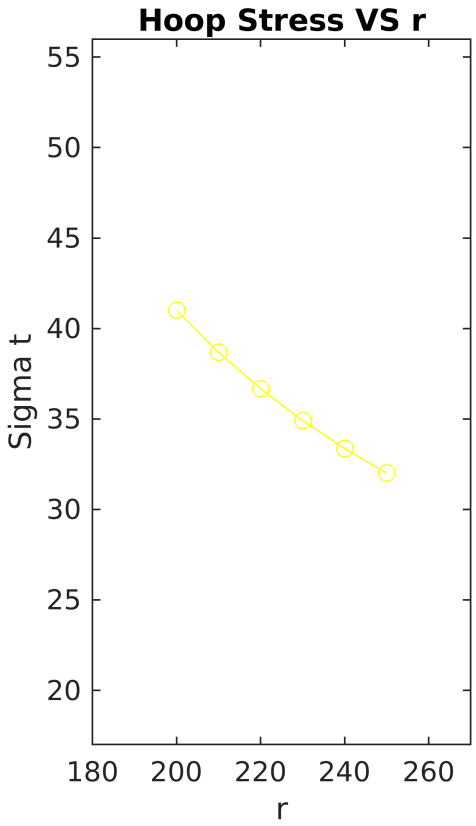
```
% Case - 1
% Given Parameters: Di = 400mm; t = 50mm; Pi = 9MPa
% sigma_r = Radial Stress
% sigma_t = Hoop / Circumferential Stress
% sigma_l = Longitudinal Stress
[sigma_r,sigma_t,sigma_l] = Pressure_Vessel(50,400,9)
```

```
Thick Pressure Vessel is required.
```








```
sigma_r = 1×6
   -9.0000   -6.6757   -4.6612   -2.9036   -1.3611         0
sigma_t = 1×6
   41.0000   38.6757   36.6612   34.9036   33.3611   32.0000
sigma_l = 16
```