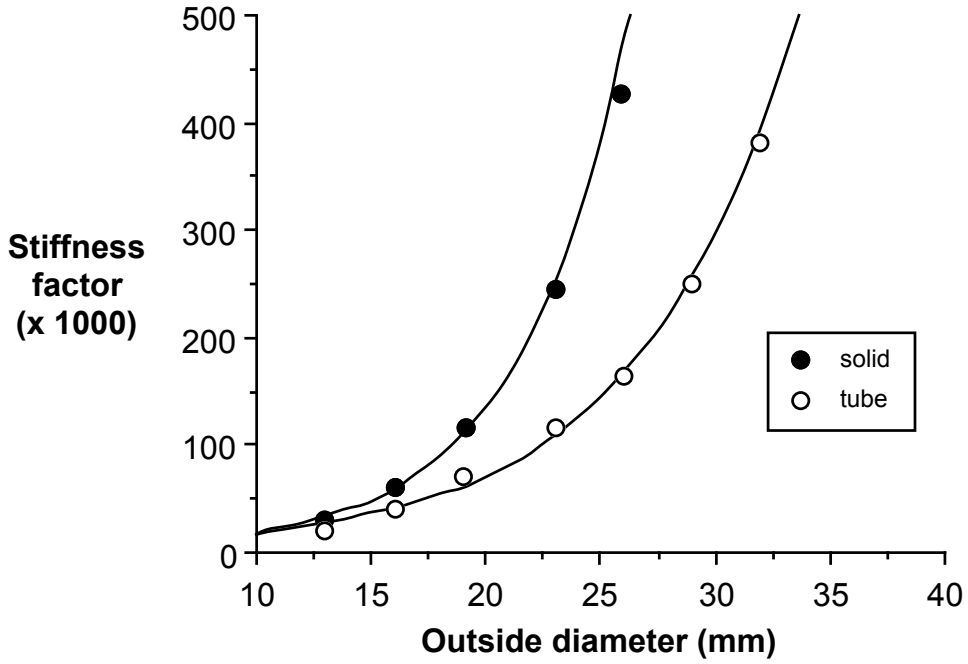
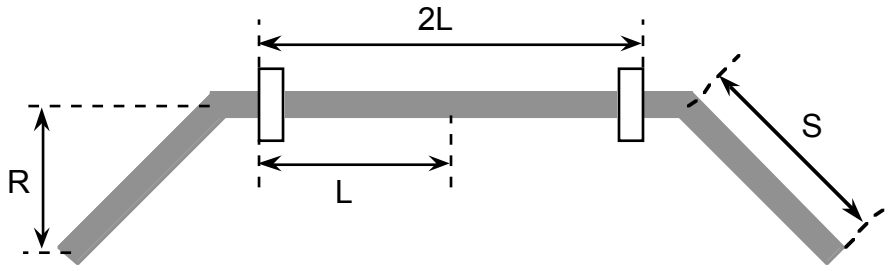
Stiffness comparison between solid and tubular bars



Method for calculating anti-roll bar stiffness



T = track (ins)
K = fractional lever arm ratio

$$\left(\frac{\text{movement at anti- roll bar pickup}}{\text{movement at wheel}}\right)$$

d = diameter of the bar (ins)
R = effective length of bar (ins)
L = half length of bar
S = length of lever arm
Q = stiffness in lb/ins per degree of vehicle roll