

Numerical answers to 4G6

1. (a) $\rho_1 = \frac{2t_1}{\sqrt{3}l_1}$; $\rho_2 = 2\sqrt{3} t_2/l_2$

(b) $\sigma_{Y1} = \frac{\rho_1^2}{2} \sigma_{YS}$; $\sigma_{Y2} = \frac{\rho_2}{2} \sigma_{YS}$;

(c) $\sigma_{Y1} = \frac{\rho_1 \rho_2}{4} \sigma_f$

2. (a) $n = f/(f + g)$