6.33 The modulus of resilience, yield strength, and elastic modulus of elasticity are related to one another through Equation 6.14; the value of E for steel given in Table 6.1 is 207 GPa. Solving for σ_y from this expression yields

$$\sigma_y = \sqrt{2U_r E} = \sqrt{(2)(2.07 \ \text{MPa})(207 \ \text{x} \ 10^3 \ \text{MPa})}$$

$$= 925 \ \text{MPa} \ (134{,}000 \ \text{psi})$$