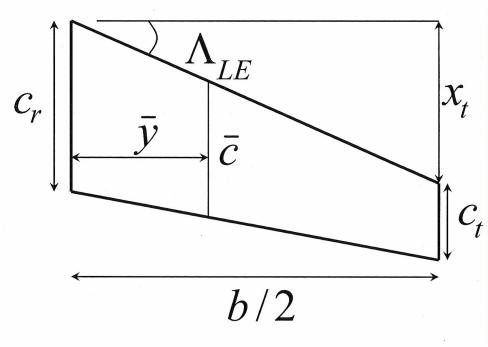


Wing Geometry



For straight tapered wing surfaces



$$AR = b^2/S$$
 Aspect ratio $\lambda = c_t/c_r$ Taper ratio $S = \frac{b}{2}(c_t+c_r)$ Planform area $\bar{c} = \frac{2}{3}c_r\left(\frac{\lambda^2+\lambda+1}{\lambda+1}\right)$ Mean cord $\bar{y} = \frac{b}{6}\left(\frac{1+2\lambda}{1+\lambda}\right)$ $\chi_t = \frac{b}{2} \tan \Lambda_{c/4} + \left(\frac{c_r-c_t}{4}\right)$ Tip position