

$$\frac{L_t}{2} \quad \lambda = \frac{L_t}{L_r}$$

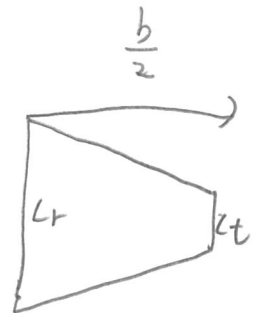
$$s = \frac{b}{2} (L_r + L_t) = \frac{b}{2} L_r \left(1 + \frac{L_t}{L_r}\right) = \frac{b}{2} L_r (1 + \lambda)$$

$$L(y) = L_r + (L_t - L_r) \frac{2}{b} y = L_r \left(1 - \frac{2(1-\lambda)}{b} y\right)$$

$$\overline{L_{mac}} = \frac{2}{3} \int_0^{\frac{b}{2}} (L(y))^2 dy$$

aside

$$L_r^2 \left(1 - \frac{2(1-\lambda)}{b} y\right)^2$$



$$= L_r^2 \left(1 - \frac{4(1-\lambda)}{b} y + \frac{4(1-\lambda)^2}{b^2} y^2\right)$$

$$\overline{L_{mac}} = \frac{2}{3} \int_0^{\frac{b}{2}} L_r^2 \left(y - \frac{4(1-\lambda)}{2b} y^2 + \frac{4(1-\lambda)^2}{3b^2} y^3\right) dy$$

$$= \frac{2}{3} \int_0^{\frac{b}{2}} L_r^2 y \left(1 - \frac{4(1-\lambda)}{2b} y + \frac{4(1-\lambda)^2}{3b^2} y^2\right) dy$$

$$= \frac{2}{3} \left(L_r^2 \frac{b}{2} \left(1 - \frac{4(1-\lambda)}{2b} \frac{b}{2} + \frac{4(1-\lambda)^2}{3b^2} \frac{b^2}{4}\right) \right)$$

$$= \frac{2}{3} \left(L_r^2 \frac{b}{2} \left(1 - \cancel{(1-\lambda)} + \frac{(1-\lambda)^2}{3}\right) \right)$$

$$= \frac{2}{3} \left(L_r^2 \frac{b}{2} \left(\frac{1+\lambda+\lambda^2}{3}\right) \right)$$

$$1 - 2\lambda + \lambda^2$$

$$= \frac{L_r}{25} b \cdot \frac{2}{3} \left(\frac{1+\lambda+\lambda^2}{3}\right) L_r = \frac{2}{3} \left(\frac{1+\lambda+\lambda^2}{1+\lambda}\right) L_r \quad \#$$

$$\times s = \frac{b}{2} (L_r (1+\lambda))$$

$$\frac{L_r b}{K(L_r (1+\lambda))}$$