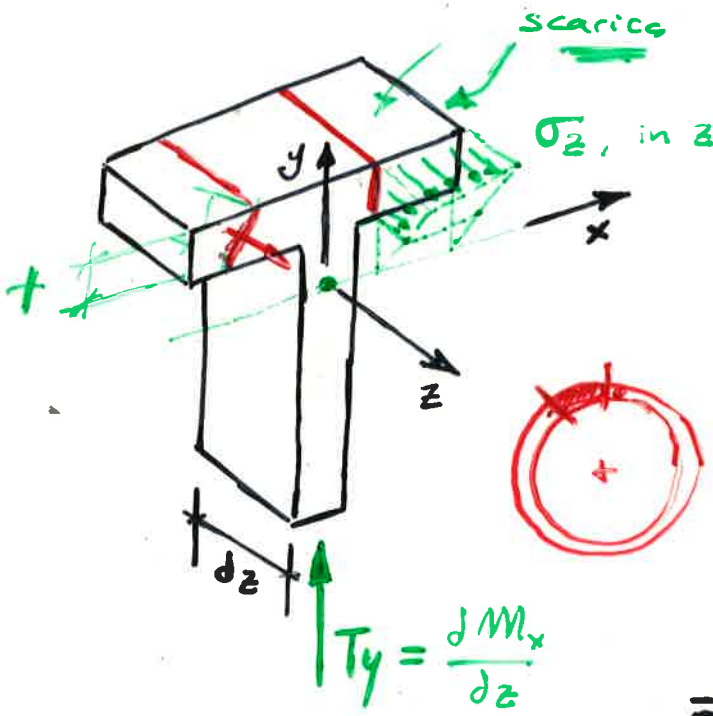
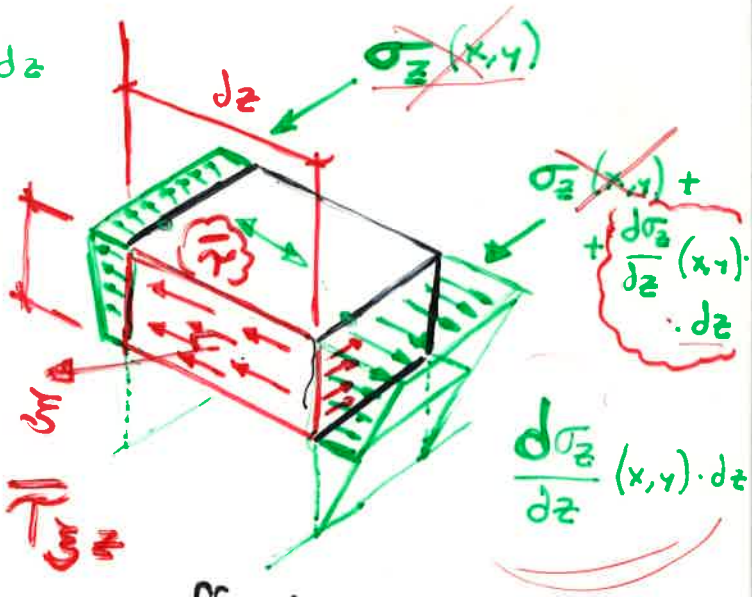
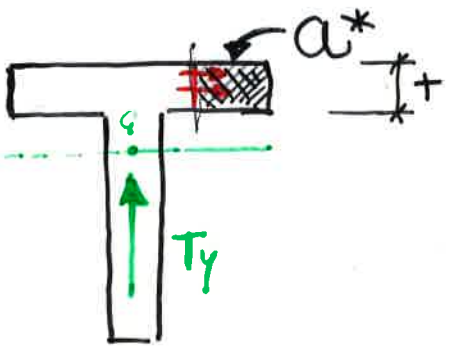
# Jourawski (1821 ÷ 1891)

ricavo le tensioni associate al taglio sulla base di considerazioni di equilibrio sul concio di sezione



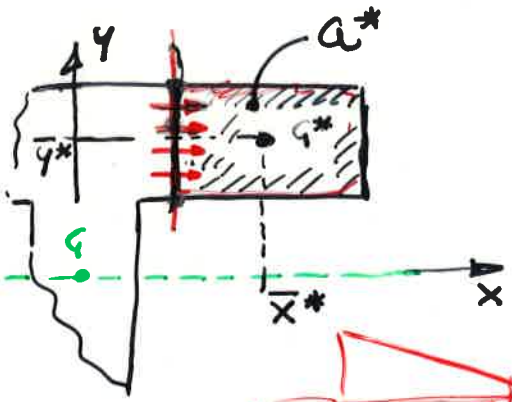




$$\bar{\tau}\cdot t\cdot dz = \iint_{a^*} \frac{d\sigma_z(x,y)}{dz}\cdot dz\cdot da$$

da cui $$\bar{\tau}\cdot t = \iint_{a^*} \frac{d\sigma_z}{dz}\cdot da$$

su materiale **omogeneo**




$$q = \bar{\tau}\cdot t = \frac{(T_x J_{xy} - T_y J_{xx})\,A^*\bar{x}^* - (T_x J_{xy} - T_y J_{yy})\,A^*\bar{y}^*}{J_{xx}J_{yy} - J_{xy}^2}$$

con $$A^*\bar{x}^* = \iint_{a^*} x\,da$$

$$A^*\bar{y}^* = \iint_{a^*} y\,da$$