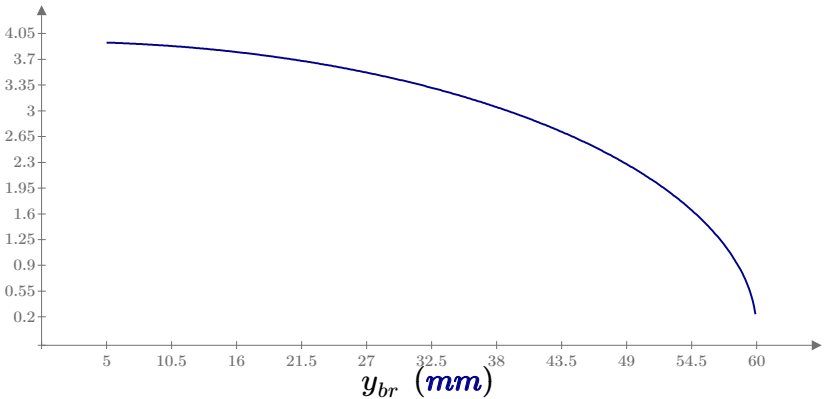
$$\tau_z\langle y_{br}\rangle := \frac{T_{BB}}{J_{Bn}} \cdot \frac{S_{nr2}\langle y_{br}\rangle}{b_{r2}\langle y_{br}\rangle \cdot \cos\langle \alpha\langle y_{br}\rangle\rangle}$$



$\tau_z\langle y_{br}\rangle$ $\left(\frac{kgf}{mm^2}\right)$

$\tau_z(r) = 3.927 \frac{kgf}{mm^2}$ $\tau_z(R - 0.0001\ mm) = 0.007 \frac{kgf}{mm^2}$