

$$b_0^+(r) = \frac{2t_p(r)}{T_r},$$

$$b_0^-(r) = 1 - \frac{2t_p(r)}{T_r},$$

$$b_n^\pm(r) = \pm \frac{1}{n\pi} \sin\left(\frac{2n\pi t_p(r)}{T_r}\right)$$