

$$I(z) = \delta_0 \begin{cases} D + z & -D \leq z \leq -p \\ D - \frac{1}{2} \left(p - \frac{z^2}{p} \right) & -p \leq z \leq p \\ D - z & p \leq z \leq D \end{cases} \quad (1)$$