

F1 and **F2** are parameters to characterize the slope of the field at the edges defined as:

$$\mathbf{F1} = \text{sgn}(a)\sqrt{a}, \quad a \equiv 24 \left(\frac{I_0^2}{2} - I_1 \right), \quad (155)$$

$$\mathbf{F2} = I_2 - \frac{I_0^3}{3} \quad (156)$$

$$\text{with } I_n \equiv \int_{-\infty}^{\infty} (s - s_0)^n \frac{K_1(s)}{K_{10}} ds, \quad (157)$$

where s_0 is the location of the edge where the effective length is defined, and $K_{10} = K_1/L$.