Find The Roots of the Following Equation using python

Initial Guess $t_{clpsi} := 0.010\,m$ Given

$$\frac{P_o}{f_o} = \frac{2 \cdot S_y \cdot \frac{t_{clpsi}}{D} \cdot \left[2 \cdot E \cdot \frac{\left(\frac{t_{clpsi}}{D} \right)^3}{1 - \nu^2} \right]}{\sqrt{\left(2 \cdot S_y \cdot \frac{t_{clpsi}}{D} \right)^2 + \left[2 \cdot E \cdot \frac{\left(\frac{t_{clpsi}}{D} \right)^3}{1 - \nu^2} \right]^2}}$$

$P_o = 1.005 \times 10^7\,Pa$

$f_o = 0.600$

$S_y = 4.502 \times 10^8\,Pa$

$t_{clpsi} = 0.010\,m$

$D = 0.508\,m$

$E = 1.999 \times 10^{11}\,Pa$

$\nu = 0.300$

+

$t_{ci} := \text{Find}(t_{clpsi})$

Expected Result $t_{ci} = 18.0382 \cdot mm$

Ref: https://kite.com/python/examples/1011/scipy-find-the-roots-of-a-function