Consider another example where you will have a Laplace transform and its inversion, both analytical

(s)[3, =- ,

Here, are the roots of the following characteristic equation

Start with the following values of the parameters

; a=3 mm

Rahul:

Units- alphaN = unitless

An = 1\*1/1 \*1/(alphaN2-1) = 1/(alphaN2-1) = unitless

Eps0 unitless

So F(t) units are a\*a\*Es = m^2 \* Pa

1 Pa = N/m2

So F(t) is in N

Es\*a2 = 7e6 \* 0.003^2 N = 63 N