

Another tder attempt

April-20-13
10:42 AM

$$C_u^{s\delta} = e^{adu \beta(s)} \quad \beta(0) = 0$$

$$\frac{d}{ds} C_u^{s\delta} = ad_u \gamma // RC_u^{-s\delta} // C_u^{s\delta}$$

$$\frac{d}{ds} e^{adu \beta(s)} \sim \left[ad_u \dot{\beta}(s) // \frac{1 - e^{-ad(ad_u \beta(s))}}{ad(ad_u \beta(s))} \right] // C_u^{s\delta}$$

$$\Rightarrow \dot{\beta} \sim \gamma // RC_u^{-s\delta} // \frac{1 - e^{-t ad_u \beta(s)}}{t ad_u \beta(s)}$$

Can be solved by power series. Not the prettiest.