Devivation of homogenous transforms of TURBT

Robot

-This is for v+1c visualization.

- Let us assume that all spacer disks are equi-distance and each segment disks include spacer disks + end disk and they both have the same height, and the distance is the same as Dh.

The same as Dh.

Neg =  $Ceil\{0.5 + round(\frac{L}{Dh})\}$  number of disks in each

number of disks in each

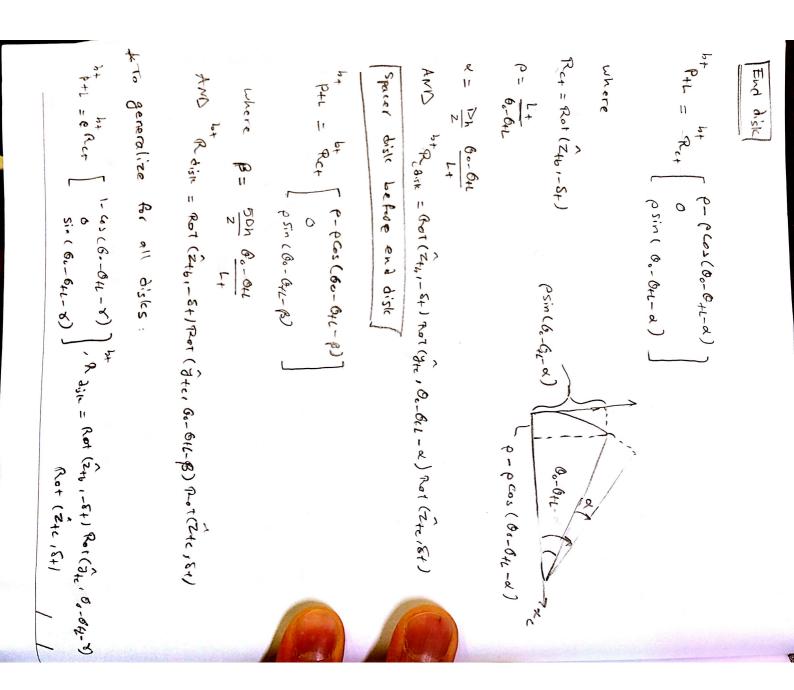
$$\begin{cases} \rho \alpha = \frac{\Delta h}{2} = 1 & \alpha = \frac{1}{2\rho} \Delta h \\ \rho \beta = \frac{5\Delta h}{2} = 1 & \beta = \frac{5}{2\rho} \Delta h \end{cases}$$

where 
$$\rho = \frac{L}{\phi_o - \phi_L}$$

Therefere, the direct kinematic

is as follows

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where  $C = \{1+4(N-n)\} D_n \frac{G_n-G_{fL}}{L_f}$ N number of disks

N disk number (N=N is the end disk)

V)