MMC HW4

continued from HW3

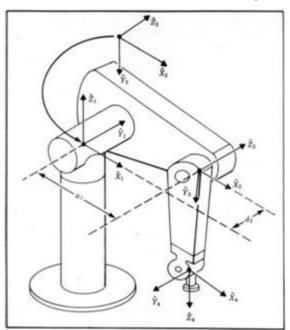
At that instance, all joint velocities are 0.1 rad / sec with the robot configuration of prob. 1 of HW3

If possible, Write the Matlab Program to do next problems as

- 1. Find the linear and angular velocities of the tool through velocity propagation
- 2. Find the Jacobian at that instant.
- 3. With the inverse of Jacobian and the obtained results, do velocity inverse kinematics to find the joint velocities.

<HW3> Using MatLab,

1. Program Forward Kinematics for Puma 560 Robots using Matlab



choose [a2, a3, d3, d4] as [1 0.3 0.5 1] and ${}^{6}P_{T}$ = $[000.3]^{T}$

 $\theta_1=30°\text{, }\theta_2=30°\text{, }\theta_3=30°\text{, }\theta_4=30°\text{, }\theta_5=30°\text{, }\theta_6=30°\text{, }\text{ find }{}^0_TT.$