## 2.3 DH in 3DOF and 4DOF:

As an example, consider a 6-DOF manipulator (Stanford Manipulator) whose rigid body and coordinate frame assignment are illustrated in Figure 3. Note that the manipulator has an Euler wrist whose three axes intersect at a com- mon point. The first (RRP) and last three (RRR) joints are spherical in shape. P and R denote prismatic and revolute joints, respectively. The DH parameters corresponding to this manipulator are shown in Table 1.

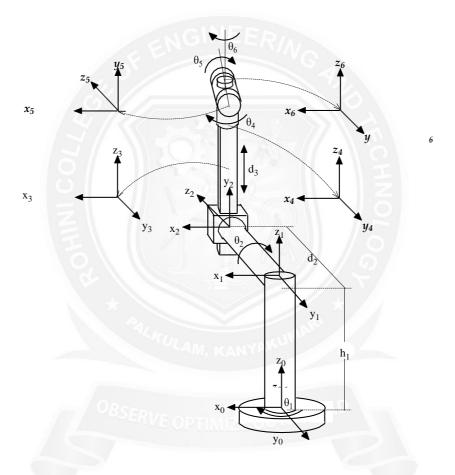


Figure 3. Rigid body and coordinate frame assignment for the Stanford Manipulator.

i	$\theta_{i}$	$\alpha_{i-1}$	a <sub>i-1</sub>	$d_{i}$
1	$\theta_1$	0	0	h <sub>1</sub>
2	$\theta_2$	90	0	$d_2$
3	0	-90	0	$d_3$
4	$\theta_4$	0	0	0
5	$\theta_5$	90	0	0
6	$\theta_6$	-90	0	0

Table 1. DH parameters for the Stanford Manipulator.

