

Experiment No: 5

Programming using Matlab for Forward and Inverse Kinematics

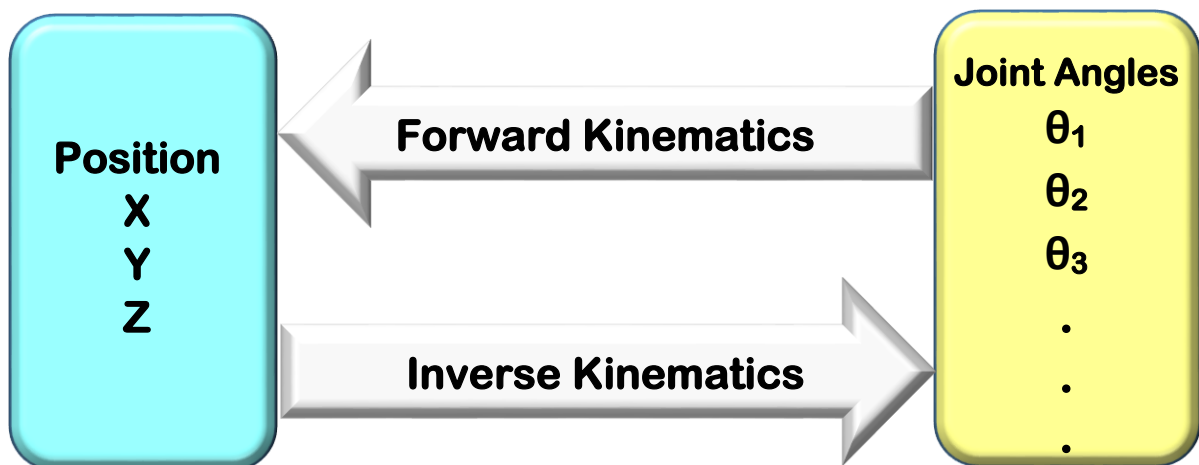
Outcomes:

Students will be able to

- understand the forward and inverse kinematics for robotic manipulator
- prepare the programme for real world application using programming language

Description:

Forward and Inverse Kinematics are the two most important processes which are required for any type of robotic manipulator. These approaches play a significant role to prepare the base of overall analysis. Forward kinematics refers to the use of the kinematic equations of a robot to compute the position of the end-effector from specified values for the joint parameters. The reverse process that computes the joint parameters that achieve a specified position of the end-effector is known as inverse kinematics.



Exercise:

1. Prepare a programme for forward and inverse kinematics of your respective batch.