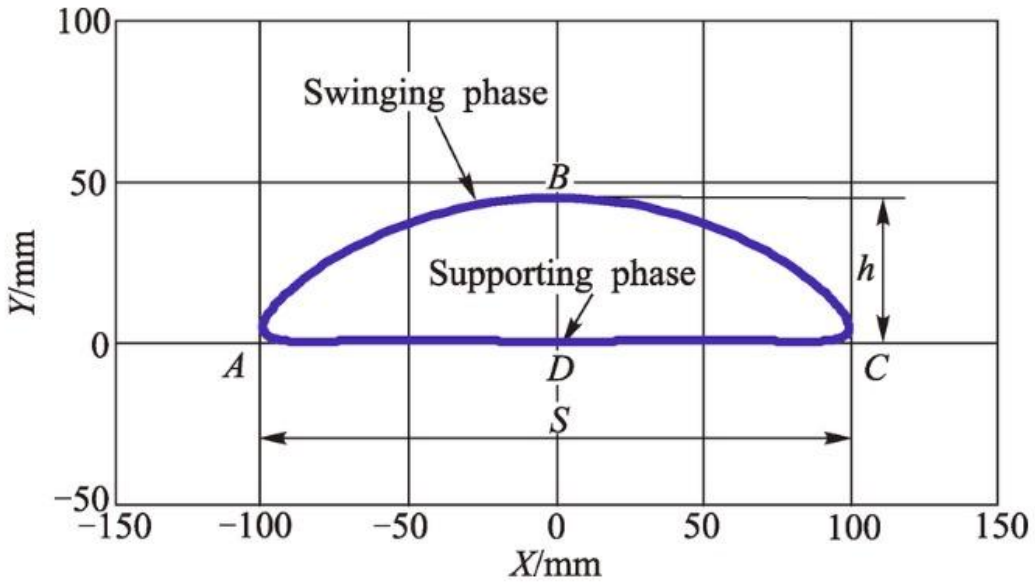
ROBOTIC ARM TASK 2

Note: YOU ARE FREE TO USE ANY PROGRAMMING LANGUAGE OF YOUR CHOICE. (The most common ones are python, MATLAB)

Q1) Consider a RR robotic arm. Make the end effector follow the blue trajectory given, such that the swing phase takes 80%, and the supporting phase (stance) takes 20% of the total time T.

Take suitable values of h, S, base joint height, and T to generate the given end- effector trajectory. Also, maintain a smooth change in acceleration at any point of the trajectory.Show the final answer in the form of an animation using matplotlib or matlab.



Resources

Chapter 5 - Path and Trajectory Planning

https://drive.google.com/file/d/1FsHJeJ7ABOO8Y7PuM90YGqpEtWyX-9WB/view?usp=sharing

http://people.ciirc.cvut.cz/~hlavac/TeachPresEn/55AutonomRobotics/090RobotTrajectoryGenerationEn.pdf

Python-

https://www.geeksforgeeks.org/python-programming-language/
https://www.w3schools.com/python/

MATLAB-

https://in.mathworks.com/learn/tutorials/matlab-onramp.html