Course 3 Graded Assignment – Module 2

Problem 1:

Inertia Matrix:

[[2.1978, 0.2723, 0.068, -0.0065, 0.1702, -0.0121], [0.2723, 3.5537, 1.3104, 0.2403, -0.0072, 0], [0.068, 1.3104, 0.8372, 0.2476, -0.0072, 0], [-0.0065, 0.2403, 0.2476, 0.2537, -0.0072, 0],[0.1702,-0.0072,-0.0072,-0.0072,0.2407,0], [-0.0121, 0, 0, 0, 0, 0.0171]]

Problem 2:

VelQuadraticForces function to calculate the Coriolis and centripetal terms in the robots dynamics.

[-0.1174,-0.0107,0.0317,-0.0148,0.0234,0,0.0029]

Problem 3:

[0,-41.5967,-3.9359,0.1234,0,0]

Problem 4:

[-0.1388,-0.0772,-0.1223,-0.1491,-0.0254,0.1]

Problem 5:

[0.1,0.0999,0.1002,0.0999,0.1002,0.1019]