

CS 205b / CME 306

Application Track

Homework 5

This homework is really more of a completion to the fourth homework, but it is nevertheless a separate homework and will receive its own separate grade. The requirements for this assignment are the same as the requirements for homework 4, with a single modification. Second order evolution (meaning x , R , v , and ω all converge with second order accuracy) was extra credit in homework 4, but it is required for this one. As before, the rotation matrices must remain valid rotation matrices to roundoff error for any time step size without normalization. This assignment provides an opportunity to get assistance in fixing remaining bugs.

The submission requirements are the same as for homework 4, except that the deadline is one week later.

Note that simply repeating a first order scheme many times does not qualify as a second order scheme.