

TAM 674

Applied Multibody Dynamics

Spring Term 2003, Mon & Wed 10:10-11:00, 202 Thurston Hall, 3 credits.

Homework assignment 5

Redo assignments 2a-f and 4a-c but now use independent generalized coordinates and Lagrange equations to derive the equations of motion. Compare your results with *all* the results from assignments 2a-f and 4a-c. This is not so easy for the constraint forces (or the constraint impulses) since by using independent generalized coordinates you have eliminated the constraints.

Bonus Question: Try to think of a general method to determine *one* arbitrary constraint force after having solved for the accelerations of the independent generalized coordinates.