ME41055
Multibody Dynamics B

Spring Term 2018, Tue 13:45-15:30, room 3mE-IZ L, 4 ECTS credits.

Homework Assignment 4 (HW4)

a. Redo assignments HW2a–g and HW3a–c but now use independent generalised coordinates and Lagrange equations to derive the equations of motion. Compare and discuss your results with the results from assignments HW2a–g and HW3a–c. Note that this can not be done for the constraint forces (or the constraint impulses) since by using independent generalised coordinates you have eliminated these forces from the equations of motion.

b. Suppose you want to determine one of the constraint forces in the system while having used independent generalised coordinates and Lagrange equations. Describe (in words) a method to do that.