

Homework #7

Due Monday 29 October 2001

Reading and problems are taken from R.C. Hibbeler, *Engineering Mechanics Dynamics*, Ninth Edition, Prentice-Hall, 2001.

Reading: Chapter 16.5-16.7

Problems:

1. (10 points) 16-51
2. (10 points) 16-59
3. (10 points) 16-67
4. (10 points) 16-74
5. (10 points) 16-86
6. (10 points) 16-97

Adams Problem

(20 points) In problem 16-148, assume that the lid has a constant angular velocity of 4 rad/s. Use Adams to solve for the angular velocity of link DC as a function of time ($0 \leq t \leq 0.4$ s). The locations of the links are as shown at $t=0$. Submit an isometric view of your model and a plot of angular velocity versus time.