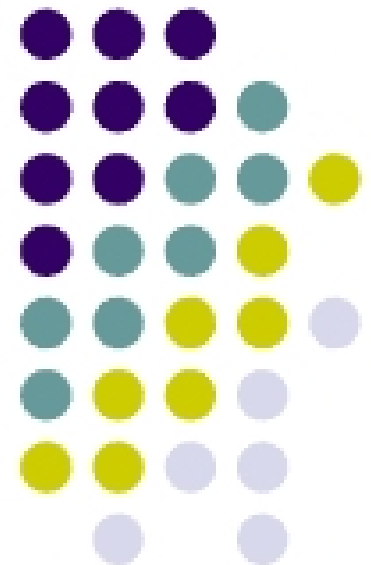


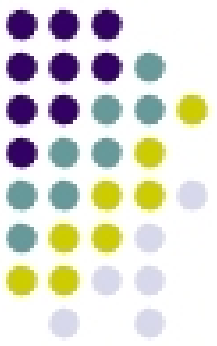
ME451

Kinematics and Dynamics of Machine Systems

Driving Constraints 3.5
October 19, 2010

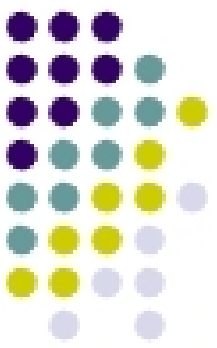


Before we get started...



- Last Time
 - Finished kinematic constraints
 - Cam-follower & Cam-flat follower
 - Point-Follower
- Today:
 - Start cover driving constraints
- HW due next Tu:
 - 3.4.7, 3.4.8, 3.4.9 + MATLAB (posted on class website)
- Recall that TA assigned ADAMS homework
- Final Project proposal due on 10/28
 - Can be based on MATLAB simEngine2D
 - Can represent some project you undertake in ADAMS
- Syllabus was updated on the class website

Driving Constraints



- The context
 - Up until now, we only expressed time invariant kinematic constraints
 - These constraints describe physical structure of a machine/mechanism
 - Normally the mechanism has a certain number of DOFs
 - Some additional time dependent constraints (“drivers”) are added to control these “unoccupied” DOFs
 - You thus control the motion of the mechanism