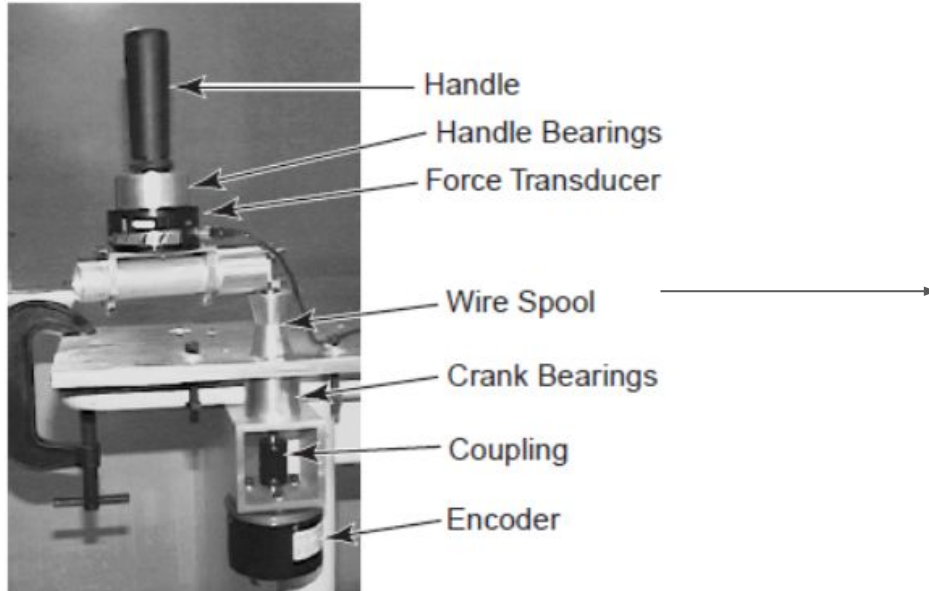


# Virtual Object Controller of a Robot Manipulator

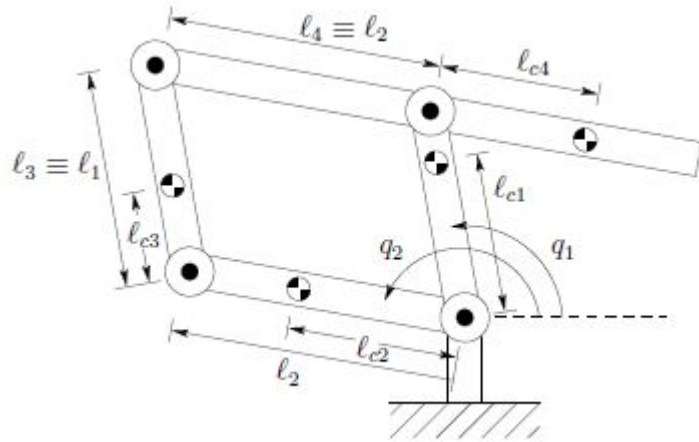
Brian Wilcox  
2.152 Term Project

# Motivation: Study Human Motor Control - Crank



# Effects of inertia and nonlinearities

# System Model: 5-Linkage (Parallel) Planar Arm



# Controller Design Goals

# Computed Torque

Virtual Object impedance/admittance

# Adaptive Control



# Comments on Simulation and Computation

# Summary