

ME 115(b): Problem Set #4

(Due Wednesday, May 16 , 2012)

Problem #1: Problem 21 in Chapt. 3 of MLS text (all sections (a)-(e)).

Problem #2: Problem 22(a,b,c,d) in Chapt. 3 of MLS text. In section (d), since since all of the structure equations are the same for all of the parallel linkages, you need only find one of the structure equations.

Problem #3: Consider the planar parallel mechanisms shown in Figure 1. What are the advantages and disadvantages of the mechanism on the right side of the figure as compared to the left side of the figure?

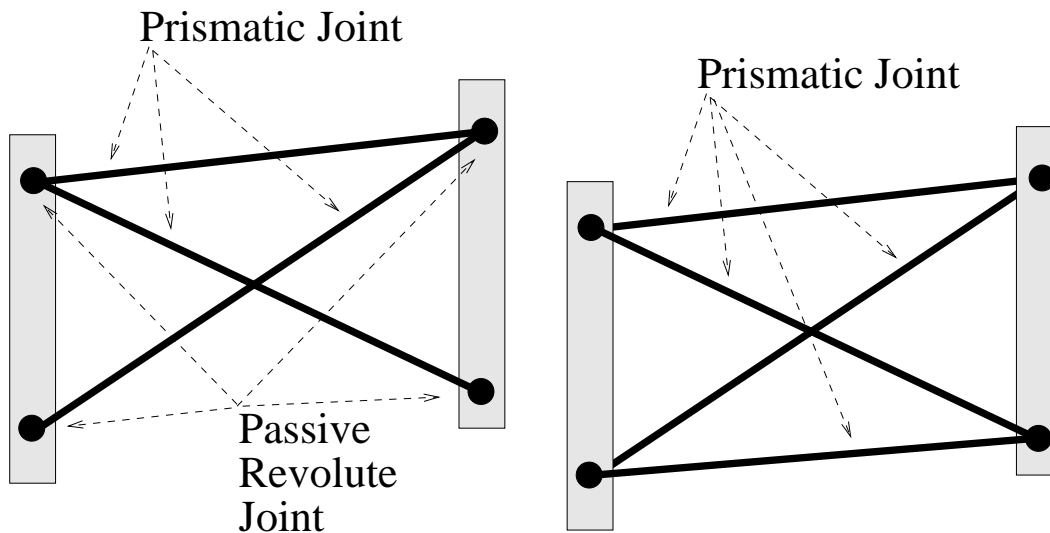


Figure 1: Planar 5-bar geared linkage