

PROBLEM 3-5

Statement: Design a fourbar mechanism to give the three positions of coupler motion with no-quick return shown in Figure P3-2. (See also Example 3-5.) Ignore the points O_2 and O_4 shown. Build a cardboard model and determine the toggle positions and the minimum transmission angle. Add a driver dyad.

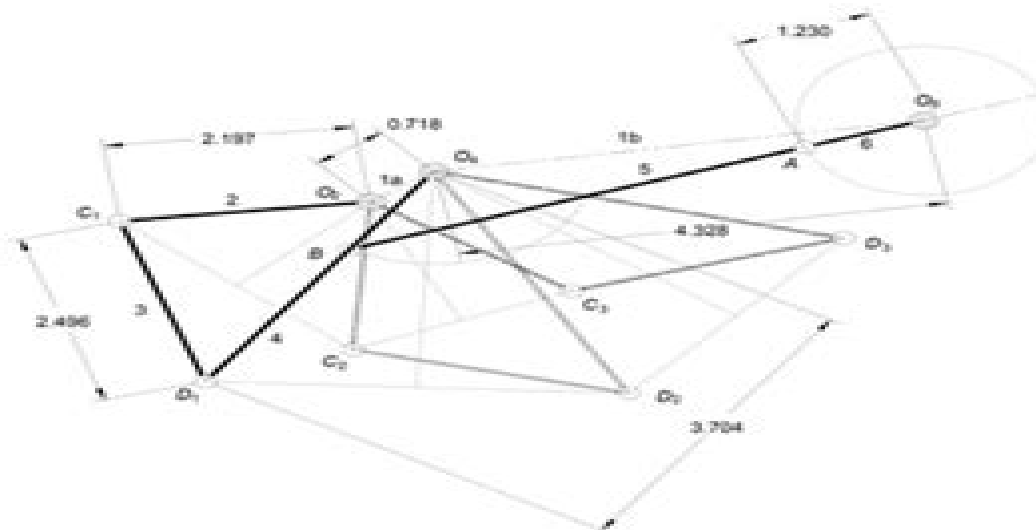
Solution: See Figure P3-2 and Mathcad file P0305.

Design choices:

$$\text{Length of link 5: } L_5 := 4.250 \quad \text{Length of link 4b: } L_{4b} := 1.375$$

1. Draw link CD in its three design positions C_1D_1 , C_2D_2 , C_3D_3 in the plane as shown.
2. Draw construction lines from point C_1 to C_2 and from point C_2 to C_3 .
3. Bisect line C_1C_2 and line C_2C_3 and extend their perpendicular bisectors until they intersect. Label their intersection O_2 .
4. Repeat steps 2 and 3 for lines D_1D_2 and D_2D_3 . Label the intersection O_4 .
5. Connect O_2 with C_1 and call it link 2. Connect O_4 with D_1 and call it link 4.
6. Line C_1D_1 is link 3. Line O_2O_4 is link 1 (ground link for the fourbar). The fourbar is now defined as O_2CDO_4 and has link lengths of

Ground link 1a	$L_{1a} := 0.718$	Link 2	$L_2 := 2.197$
Link 3	$L_3 := 2.496$	Link 4	$L_4 := 3.704$



7. Check the Grashof condition. Note that any Grashof condition is potentially acceptable in this case.

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G Orfield

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