

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.

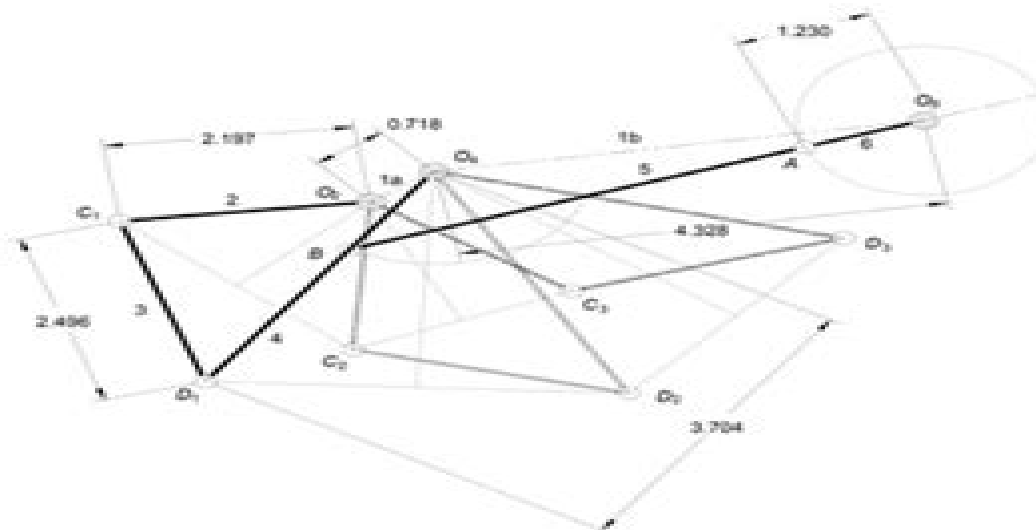
Solution: See Figure P3-2 and Mathcad file P0305.

Design choices:

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

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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Eleanor E. Hawkins



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1. Understanding the eBook Design Of Machinery Norton 5th Solution Manual
 - The Rise of Digital Reading Design Of Machinery Norton 5th Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Design Of Machinery Norton 5th Solution Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Design Of Machinery Norton 5th Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Design Of Machinery Norton 5th Solution Manual
 - Personalized Recommendations
 - Design Of Machinery Norton 5th Solution Manual User Reviews and Ratings
 - Design Of Machinery Norton 5th Solution Manual and Bestseller Lists
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 - Design Of Machinery Norton 5th Solution Manual Enhanced eBook Features
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 - Interactive Elements Design Of Machinery Norton 5th Solution Manual
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 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Design Of Machinery Norton 5th Solution Manual
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 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Design Of Machinery Norton 5th Solution Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
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 - Setting Reading Goals Design Of Machinery Norton 5th Solution Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Design Of Machinery Norton 5th Solution Manual
 - Fact-Checking eBook Content of Design Of Machinery Norton 5th Solution Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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