

PROBLEM 3-12

Statement: Design a sixbar, single-dwell linkage for a dwell of 90 deg of crank motion, with an output rocker motion of 45 deg.

Given: Crank dwell period: 90 deg.
Output rocker motion: 45 deg.

Solution: See Figures 3-20, 3-21, and Mathcad file P0312.

Design choices:

Ground link ratio, $L_1/L_2 = 2.0$: $GLR := 2.0$

Common link ratio, $L_3/L_2 = L_4/L_2 = BP/L_2 = 2.5$: $CLR := 2.5$

Coupler angle, $\gamma := 72\text{-deg}$

Crank length, $L_2 := 2.000$

1. For the given design choices, determine the remaining link lengths and coupler point specification.

Coupler link (3) length $L_3 := CLR \cdot L_2$ $L_3 = 5.000$

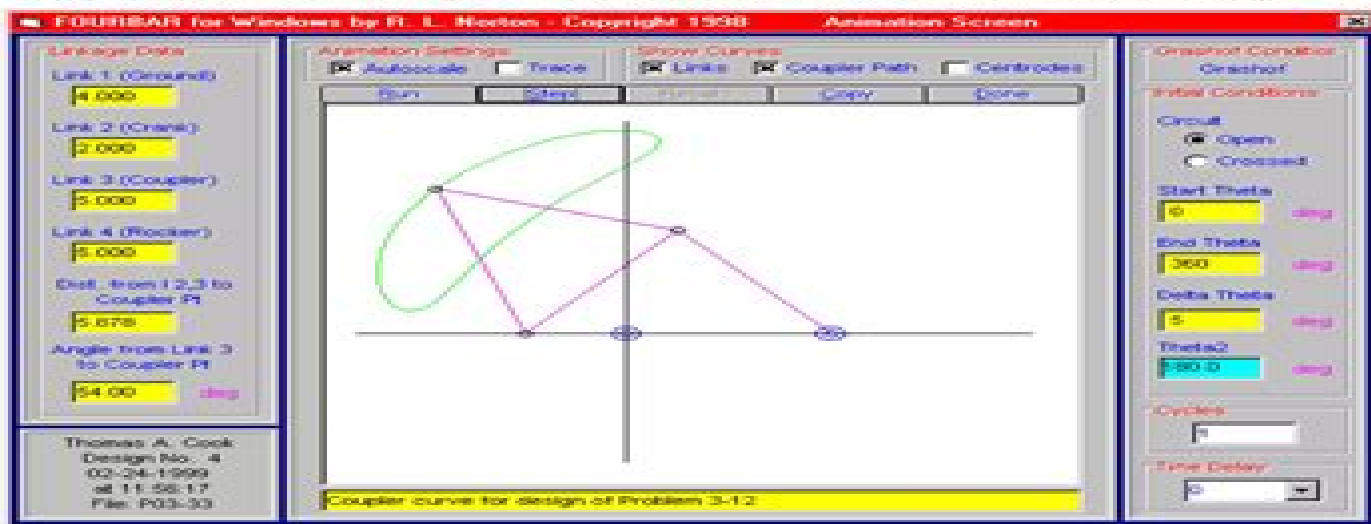
Rocker link (4) length $L_4 := CLR \cdot L_2$ $L_4 = 5.000$

Ground link (1) length $L_1 := GLR \cdot L_2$ $L_1 = 4.000$

Angle PAB $\delta := \frac{180\text{-deg} - \gamma}{2}$ $\delta = 54.000\text{-deg}$

Length AP on coupler $AP := 2 \cdot L_3 \cdot \cos(\delta)$ $AP = 5.878$

2. Enter the above data into program FOURBAR, plot the coupler curve, and determine the coordinates of the coupler curve in the selected range of crank motion, which in this case will be from 135 to 225 deg..



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Joseph Edward Shigley



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1. Understanding the eBook Design Of Machinery Norton 5th Solution Manual Pdf
 - The Rise of Digital Reading Design Of Machinery Norton 5th Solution Manual Pdf
 - Advantages of eBooks Over Traditional Books
2. Identifying Design Of Machinery Norton 5th Solution Manual Pdf
 - 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 Pdf
 - User-Friendly Interface
4. Exploring eBook Recommendations from Design Of Machinery Norton 5th Solution Manual Pdf
 - Personalized Recommendations
 - Design Of Machinery Norton 5th Solution Manual Pdf User Reviews and Ratings
 - Design Of Machinery Norton 5th Solution Manual Pdf and Bestseller Lists
5. Accessing Design Of Machinery Norton 5th Solution Manual Pdf Free and Paid eBooks

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 - Design Of Machinery Norton 5th Solution Manual Pdf Compatibility with Devices
 - Design Of Machinery Norton 5th Solution Manual Pdf Enhanced eBook Features
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 - Adjustable Fonts and Text Sizes of Design Of Machinery Norton 5th Solution Manual Pdf
 - Highlighting and Note-Taking Design Of Machinery Norton 5th Solution Manual Pdf
 - Interactive Elements Design Of Machinery Norton 5th Solution Manual Pdf
 8. Staying Engaged with Design Of Machinery Norton 5th Solution Manual Pdf
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Design Of Machinery Norton 5th Solution Manual Pdf
 9. Balancing eBooks and Physical Books Design Of Machinery Norton 5th Solution Manual Pdf
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Design Of Machinery Norton 5th Solution Manual Pdf
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Design Of Machinery Norton 5th Solution Manual Pdf
 - Setting Reading Goals Design Of Machinery Norton 5th Solution Manual Pdf
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Design Of Machinery Norton 5th Solution Manual Pdf
 - Fact-Checking eBook Content of Design Of Machinery Norton 5th Solution Manual Pdf
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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