

Solutions to Chapter 2 Exercise Problems

Introduction

The solutions in this chapter have been developed using SolidWorks. Other parametric design programs will follow the same procedures although the command structure will vary from program to program. The SolidWorks files for the individual figures are available in a separate folder. Typically, the final figure gives the solution to the problem.

Problem 2.1

A slider crank mechanism is to move the slider 1" for 40° of rotation of the crank as shown in the figure. Using GCP methods, develop a graphical solution to determine the necessary crank and coupler lengths. Explicitly identify the layer structure used, and make a separate layer for all possible input dimensions. Also, explicitly list the driving and driven variables. Show the use of your graphical program to resolve the problem when the slider distance is 1.5 in and the crank rotates through an angle of 60°



Figure P2-1.1 Original drawing for Problem 2.1.

Solution to Problem 2.1

If the fixed pivot and slider line lie on a horizontal line, the problem is defined by a total 6 variables, four of which are independent. We can represent these as shown in Table P2-1.1.

To begin the solution procedure, open the blank drawing sheet (*Blank_Worksheet.SLDWORK*) in SolidWorks. Set up the following layers: *ProblemDrawing*, *InputVariables*, *SolutionConstruction*, *SolutionDimensions*, *FinalLinkage*, and *Dimensions*. *InputVariables* contains only the input dimensions which will be used as input variables for the graphical program we will develop. *SolutionDimensions* contains only the dimensions for the two link lengths which were not specified. *Dimensions* contains miscellaneous dimensions such as those associated with pin

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Table of Contents Kinematics Dynamics Of Machinery Solution Manual

1. Understanding the eBook Kinematics Dynamics Of Machinery Solution Manual
 - The Rise of Digital Reading Kinematics Dynamics Of Machinery Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Kinematics Dynamics Of Machinery 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 Kinematics Dynamics Of Machinery Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Kinematics Dynamics Of Machinery Solution Manual

- Personalized Recommendations
- Kinematics Dynamics Of Machinery Solution Manual User Reviews and Ratings
- Kinematics Dynamics Of Machinery Solution Manual and Bestseller Lists
- 5. Accessing Kinematics Dynamics Of Machinery Solution Manual Free and Paid eBooks
 - Kinematics Dynamics Of Machinery Solution Manual Public Domain eBooks
 - Kinematics Dynamics Of Machinery Solution Manual eBook Subscription Services
 - Kinematics Dynamics Of Machinery Solution Manual Budget-Friendly Options
- 6. Navigating Kinematics Dynamics Of Machinery Solution Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Kinematics Dynamics Of Machinery Solution Manual Compatibility with Devices
 - Kinematics Dynamics Of Machinery Solution Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Kinematics Dynamics Of Machinery Solution Manual
 - Highlighting and Note-Taking Kinematics Dynamics Of Machinery Solution Manual
 - Interactive Elements Kinematics Dynamics Of Machinery Solution Manual
- 8. Staying Engaged with Kinematics Dynamics Of Machinery Solution Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Kinematics Dynamics Of Machinery Solution Manual
- 9. Balancing eBooks and Physical Books Kinematics Dynamics Of Machinery Solution Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Kinematics Dynamics Of Machinery Solution Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Kinematics Dynamics Of Machinery Solution Manual
 - Setting Reading Goals Kinematics Dynamics Of Machinery Solution Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Kinematics Dynamics Of Machinery Solution Manual

- Fact-Checking eBook Content of Kinematics Dynamics Of Machinery 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
- Interactive and Gamified eBooks

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