

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 And Dynamics Of Machinery Solutions Manual

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

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