

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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Theory of Machines and Mechanisms Joseph E. Shigley, John J. Uicker, 1994-12 The second edition of Shigley Uicker maintains the tradition of being very complete thorough and somewhat theoretical The principal changes include an expansion and updating of the dynamics material expansion of the chapter on gears an expansion of the material on mechanisms a new introductory chapter Intended for the Kinematics and Dynamics course in Mechanical Engineering departments

Kinematics, Dynamics, and Design of Machinery Kenneth J. Waldron, Gary L. Kinzel, Sunil K. Agrawal, 2016-05-10 Kinematics Dynamics and Design of Machinery Third Edition presents a fresh approach to kinematic design and analysis and is an ideal textbook for senior undergraduates and graduates in mechanical automotive and production engineering Presents the traditional approach to the design and analysis of kinematic problems and shows how GCP can be used to solve the same problems more simply Provides a new and simpler approach to cam design Includes an increased number of exercise problems Accompanied by a website hosting a solutions manual teaching slides and MATLAB programs

Solution Manual for Mechanics and Control of Robots Krishna C. Gupta, 1997-04-24 Intended as an introduction to robot mechanics for students of mechanical industrial electrical and bio mechanical engineering this graduate text presents a wide range of approaches and topics It avoids formalism and proofs but nonetheless discusses advanced concepts and contemporary applications It will thus also be of interest to practicing engineers The book begins with kinematics emphasizing an approach based on rigid body displacements instead of coordinate transformations it then turns to inverse kinematic analysis presenting the widely used Pieper Roth and zero reference position methods This is followed by a discussion of workplace characterization and determination One focus of the discussion is the motion made possible by spherical and other novel wrist designs The text concludes with a brief discussion of dynamics and control An extensive bibliography provides access to the current literature

Solutions Manual to Accompany Kinematics and Dynamics of Machinery by Wilson, Sadler and Michels Charles E. Wilson, J. Peter Sadler, 1983 **Journal of Mechanical Design**, 1979

Kinematics, Dynamics, and Design of Machinery Kenneth J. Waldron, Gary L. Kinzel, 1999-01-01 Kinematics and Dynamics of Planar Machinery Burton Paul, 1979 *Proceedings American Society for Engineering Education*, 1988

Innovative Algorithms and Techniques in Automation, Industrial Electronics and Telecommunications Tarek Sobh, Khaled Elleithy, Ausif Mahmood, Mohamed Karim, 2007-09-04 Innovative Algorithms and Techniques in Automation Industrial Electronics and Telecommunications includes a set of rigorously reviewed world class manuscripts addressing and detailing state of the art research projects in the areas of Industrial Electronics Technology not only the reviewing submissions and registration processes but also the actual conference Conference participants authors presenters and attendees only needed an internet connection and sound available on their computers in order to be able to contribute and participate in this international ground breaking conference The on line structure of this high quality event allowed academic professionals and

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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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