

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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