

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, $L_3/L_2 = 2.0$: $GLR := 2.0$

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 $L_3 := CLR \cdot L_2$ $L_3 = 5.000$

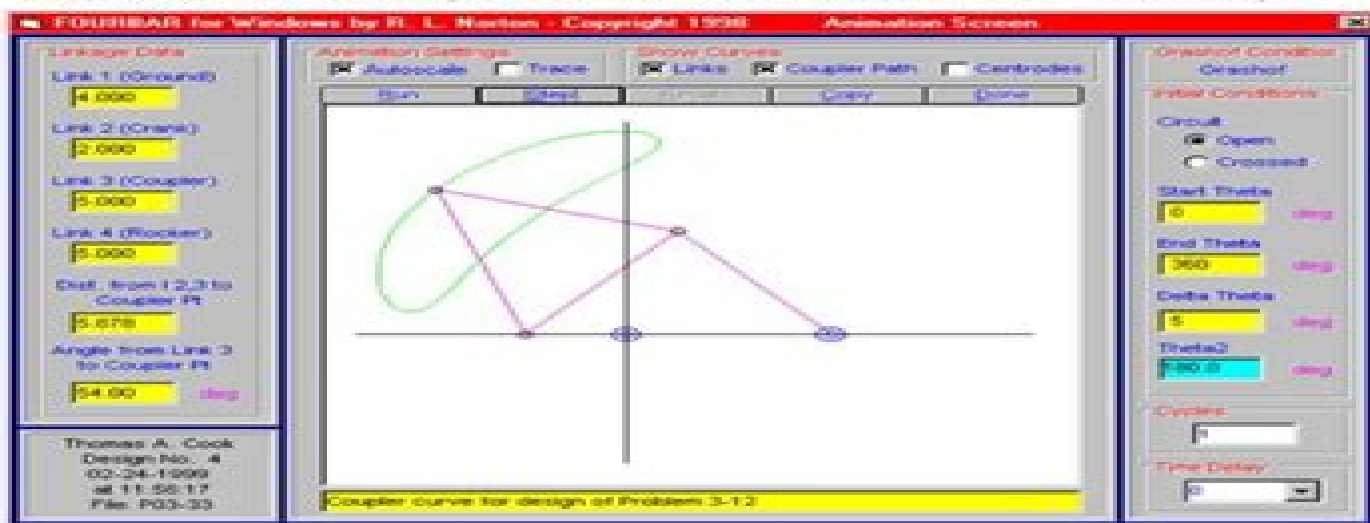
Rocker link (4) length $L_4 := CLR \cdot L_2$ $L_4 = 5.000$

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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