

PROBLEM 3-3

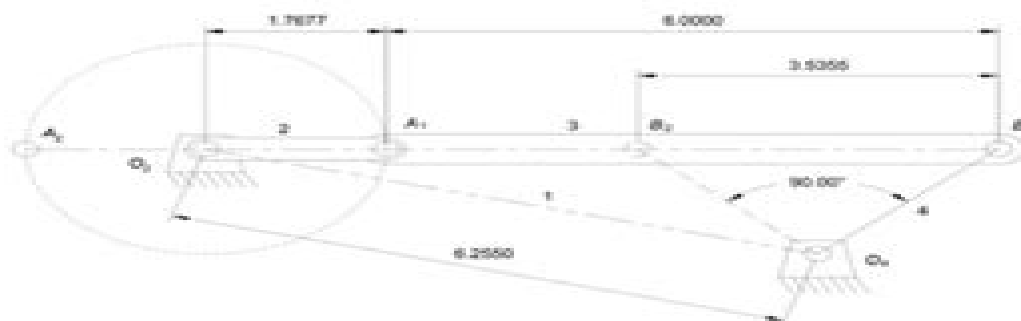
Statement: Design a fourbar Grashof crank-rocker for 90 deg of output rocker motion with no quick return. (See Example 3-1.) Build a cardboard model and determine the toggle positions and the minimum transmission angle.

Given: Output angle $\theta_o = 90^\circ$

Solution: See Example 3-1 and Mathcad file P0302.

Design choices: Link lengths: Link 3 $\ell_3 = 6,000$ Link 4 $\ell_4 = 2,500$

1. Draw the output link O_4B in both extreme positions, B_1 and B_2 , in any convenient location such that the desired angle of motion θ_4 is subtended. In this solution, link 4 is drawn such that the two extreme positions each make an angle of 45 deg to the vertical.
2. Draw the chord B_1B_2 and extend it in any convenient direction. In this solution it was extended to the left.
3. Layout the distance A_1B_1 along extended line B_1B_2 equal to the length of link 3. Mark the point A_1 .
4. Bisect the line segment B_1B_2 and layout the length of that radius from point A_1 along extended line B_1B_2 . Mark the resulting point O_2 and draw a circle of radius O_2A_1 with center at O_2 .
5. Label the other intersection of the circle and extended line B_1B_2 , A_2 .
6. Measure the length of the crank (link 2) as O_2A_1 or O_2A_2 . From the graphical solution, $L_2 := 1.76775$
7. Measure the length of the ground link (link 1) as O_1O_2 . From the graphical solution, $L_1 := 6.2550$



8. Find the Grashof condition.

```

Condition(a, b, c, d) :=
    S ← min(a, b, c, d)
    L ← max(a, b, c, d)
    SL ← S + L
    PQ ← a + b + c + d − SL
    return "Grashof"   if SL < PQ
    return "Special Grashof" if SL = PQ
    return "non-Grashof" otherwise

```

$$Condition_{\text{end}}(E_1, E_2, E_3, E_4) = \text{"Crashed"}$$

Design Of Machinery Fifth Edition Solution Manual

RJ Alexander



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