

PROBLEM 3-14

Statement: Figure P3-3 shows a treadle-operated grinding wheel driven by a fourbar linkage. Make a cardboard model of the linkage to any convenient scale. Determine its minimum transmission angles. Comment on its operation. Will it work? If so, explain how it does.

Given: Link lengths: Link 2 $L_2 := 0.60\text{-m}$ Link 3 $L_3 := 0.75\text{-m}$
Link 4 $L_4 := 0.13\text{-m}$ Link 1 $L_1 := 0.90\text{-m}$

Grashof condition function:

```

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

```

Solution: See Mathcad file P0314.

1. Determine the Grashof condition of the mechanism from inequality 2.8 and its Barker classification from Table 2-4.

Grashof condition: $Condition\{L_1, L_2, L_3, L_4\} = \text{"Grashof"}$

Barker classification: Class 1-4, Grashof-rocker-rocker-crank, GRRC, since the shortest link is the output link.

2. As a Grashof-rocker-crank, the minimum transmission angle will be 0 deg, twice per revolution of the output (link 4) crank.
3. Despite having transmission angles of 0 deg twice per revolution, the mechanism will work. That is, one will be able to drive the grinding wheel from the treadle (link 2). The reason is that the grinding wheel will act as a flywheel and will carry the linkage through the periods when the transmission angle is low. Typically, the operator will start the motion by rotating the wheel by hand.

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Robert L. Norton



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