

**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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## **Table of Contents Design Of Machinery Norton 5th Solution Manual Scribd**

1. Understanding the eBook Design Of Machinery Norton 5th Solution Manual Scribd
  - The Rise of Digital Reading Design Of Machinery Norton 5th Solution Manual Scribd
  - Advantages of eBooks Over Traditional Books
2. Identifying Design Of Machinery Norton 5th Solution Manual Scribd
  - 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 Design Of Machinery Norton 5th Solution Manual Scribd
  - User-Friendly Interface
4. Exploring eBook Recommendations from Design Of Machinery Norton 5th Solution Manual Scribd
  - Personalized Recommendations
  - Design Of Machinery Norton 5th Solution Manual Scribd User Reviews and Ratings
  - Design Of Machinery Norton 5th Solution Manual Scribd and Bestseller Lists
5. Accessing Design Of Machinery Norton 5th Solution Manual Scribd Free and Paid eBooks
  - Design Of Machinery Norton 5th Solution Manual Scribd Public Domain eBooks
  - Design Of Machinery Norton 5th Solution Manual Scribd eBook Subscription Services
  - Design Of Machinery Norton 5th Solution Manual Scribd Budget-Friendly Options
6. Navigating Design Of Machinery Norton 5th Solution Manual Scribd eBook Formats

- ePub, PDF, MOBI, and More
  - Design Of Machinery Norton 5th Solution Manual Scribd Compatibility with Devices
  - Design Of Machinery Norton 5th Solution Manual Scribd Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Design Of Machinery Norton 5th Solution Manual Scribd
    - Highlighting and Note-Taking Design Of Machinery Norton 5th Solution Manual Scribd
    - Interactive Elements Design Of Machinery Norton 5th Solution Manual Scribd
  8. Staying Engaged with Design Of Machinery Norton 5th Solution Manual Scribd
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Design Of Machinery Norton 5th Solution Manual Scribd
  9. Balancing eBooks and Physical Books Design Of Machinery Norton 5th Solution Manual Scribd
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Design Of Machinery Norton 5th Solution Manual Scribd
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Design Of Machinery Norton 5th Solution Manual Scribd
    - Setting Reading Goals Design Of Machinery Norton 5th Solution Manual Scribd
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Design Of Machinery Norton 5th Solution Manual Scribd
    - Fact-Checking eBook Content of Design Of Machinery Norton 5th Solution Manual Scribd
    - 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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