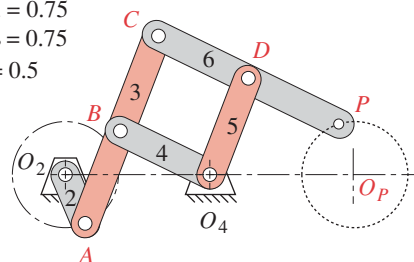


(a) Chebyshev approximate circle-tracing fourbar

$$\begin{aligned}
 AB &= BC = CD = DP = BO_4 = DO_4 = 1.0 \\
 O_2O_4 &= 0.75 \\
 O_4O_P &= 0.75 \\
 AO_2 &= 0.5
 \end{aligned}$$



(b) Delone exact circle-tracing sixbar

FIGURE 3-37

Circle generating mechanisms (Source: Artobolevsky ⁽²⁰⁾ Vol 1, pp. 450-451)

†7-68 Write a computer program or use an equation solver such as *Mathcad*, *Matlab*, or *TKSolver* to calculate and plot magnitude and direction of the acceleration of point *P* in Figure 3-37a as a function of θ_2 . Also calculate and plot the acceleration of point *P* versus point *A*.

†7-69 Repeat problem 7-68 for the linkage in Figure 3-37b.

† These problems are suited to solution using *Mathcad*, *Matlab*, or *TKSolver* equation solver programs.