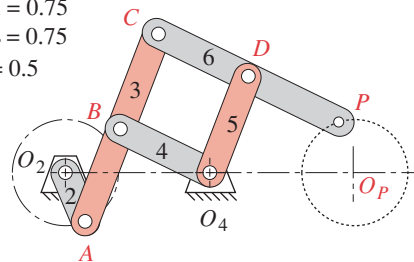


$AB = BP = BO_4 = 1.0$
 $AO_2 = 0.136$
 $O_2O_4 = 1.414$

(a) Chebyshev approximate circle-tracing fourbar

$AB = BC = CD = DP = BO_4 = DO_4 = 1.0$
 $O_2O_4 = 0.75$
 $O_4O_P = 0.75$
 $AO_2 = 0.5$



(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 (p. 144) 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 (p. 144).

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