



$L_2 = 1.000$	$L_3 = 3.800$	$L_5 = 1.286$	$L_6 = 0.771$	$O_4B = 1.286$	$O_4D = 1.429$	$O_2O_4 = 3.857$	$O_2O_6 = 4.643$
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FIGURE 3-35

Washing machine agitator mechanism - constant speed motor drives link 2 and agitator is oscillated by link 6 at O_6

- 7-65 Find the angular acceleration of link 6 of the linkage in Figure 3-35 (p. 143) when $\theta_2 = 90^\circ$ assuming constant $\omega_2 = 10$ rad/sec CCW.
- Using a graphical method (use a compass and straightedge to draw the linkage with link 2 at 90°).
 - Using an analytical method.

- †7-66 Write a computer program or use an equation solver such as *Mathcad*, *Matlab*, or *TKSolver* to calculate and plot the angular acceleration of link 6 in the sixbar linkage of Figure 3-35 (p. 143) as a function of θ_2 for a constant $\omega_2 = 1$ rad/sec CCW.

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