

# Cam Design

• A cam is designed to convert one motion into another form

• A follower is designed to follow the cam profile.

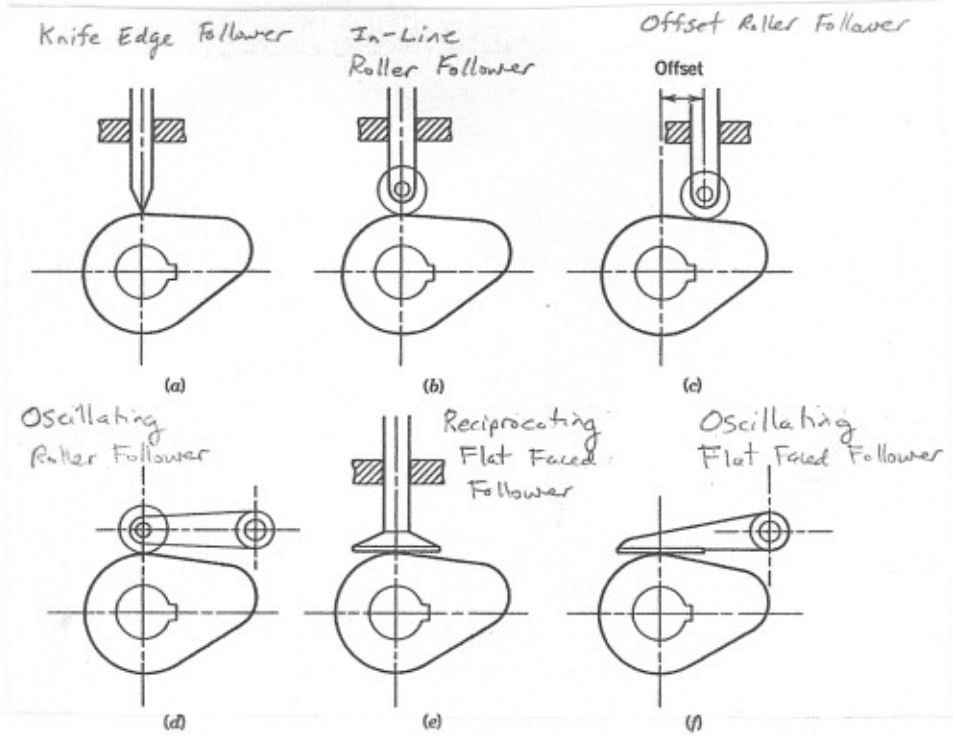
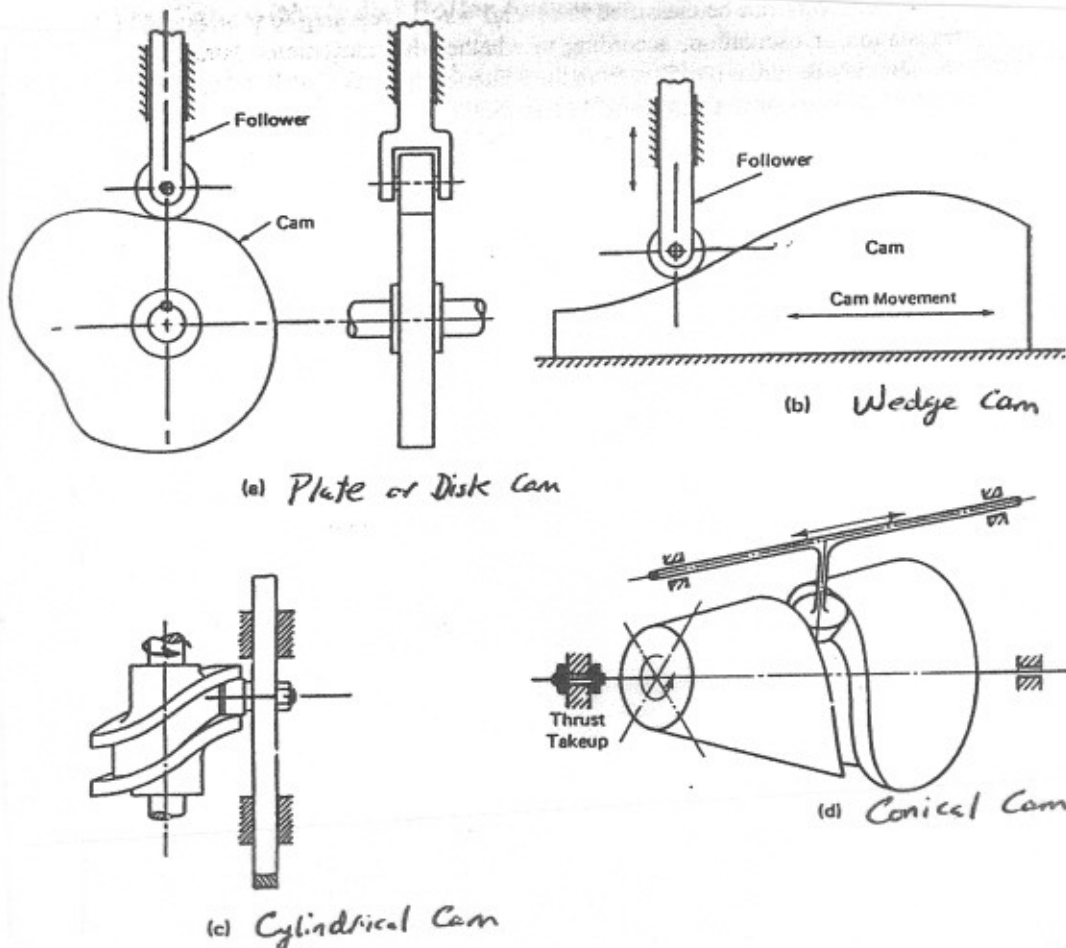
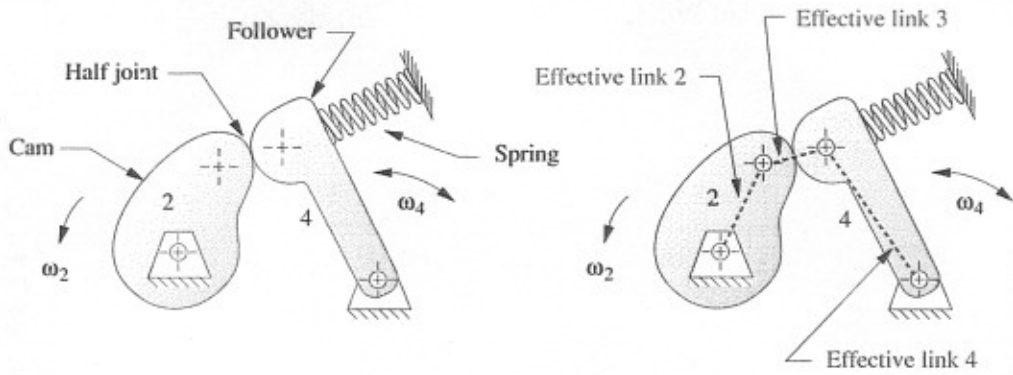
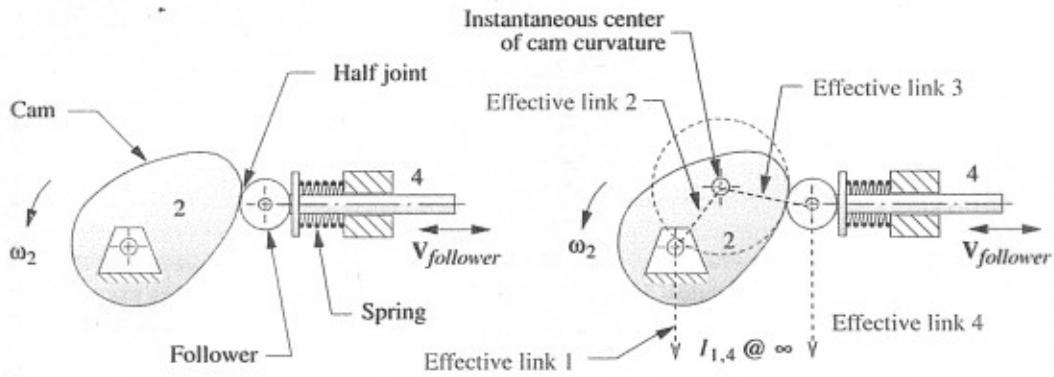


FIGURE 3.1 Common cam-and-follower arrangements.





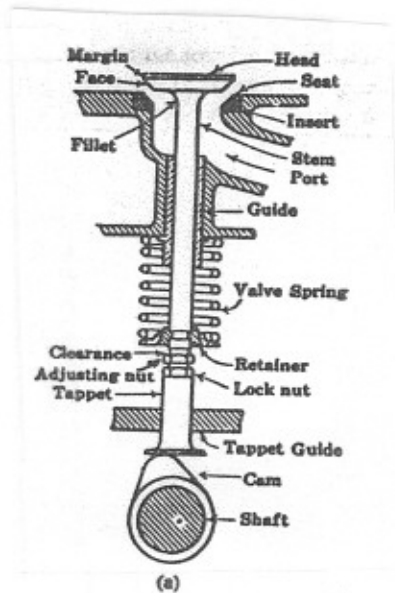
(a) An oscillating cam-follower has an effective pin-jointed fourbar equivalent



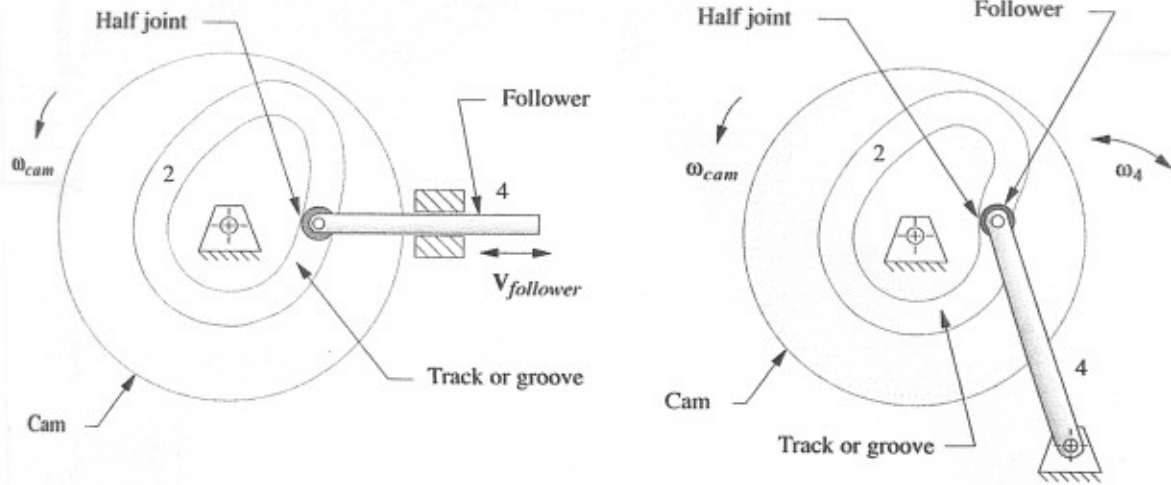
(b) A translating cam-follower has an effective fourbar slider-crank equivalent

FIGURE 8-1

Effective linkages in the cam-follower mechanism

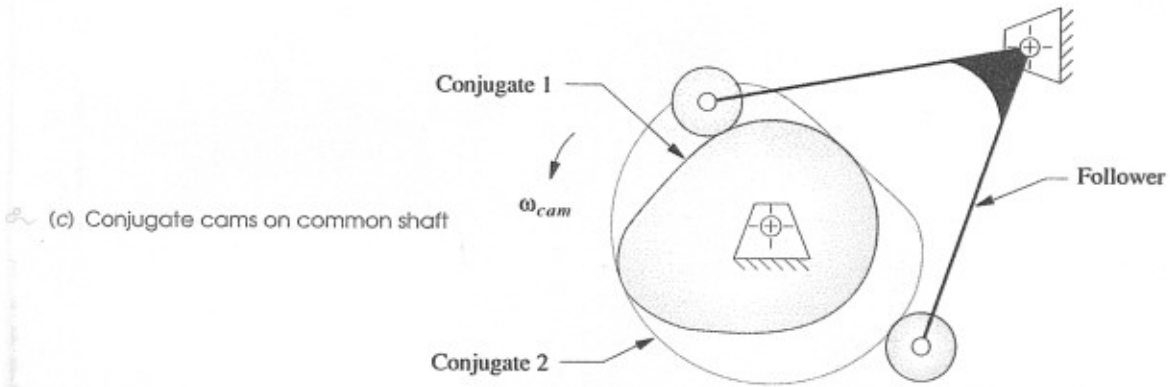


(a)



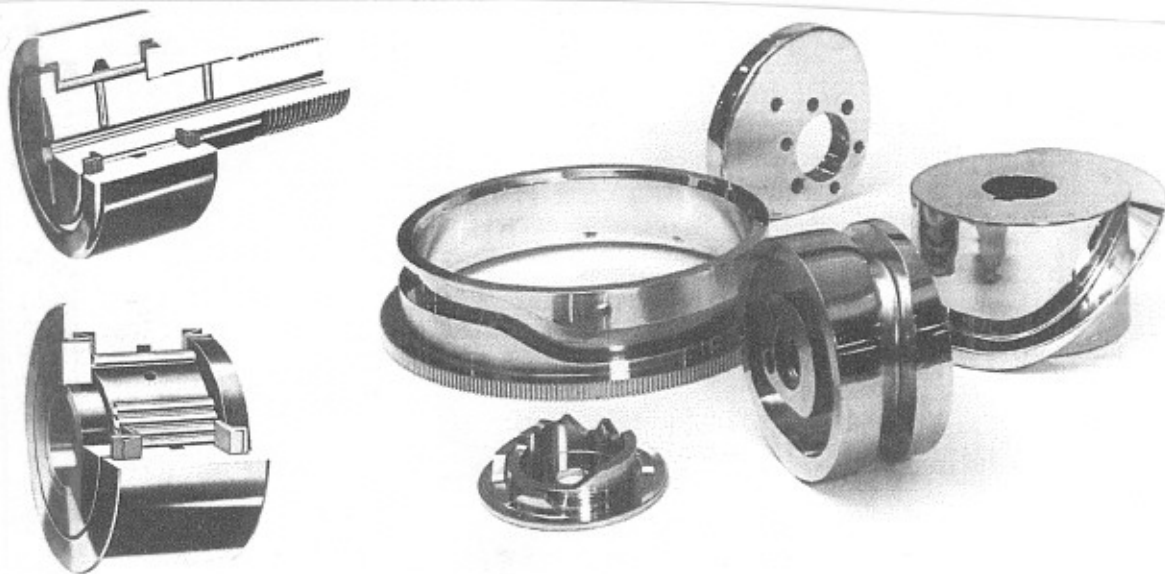
(a) Form-closed cam with translating follower

(b) Form-closed cam with oscillating follower



(c) Conjugate cams on common shaft

FIGURE 8-2  
Form-closed cam-follower systems



(a) Commercial roller followers  
Courtesy of McGill Manufacturing Co.  
South Bend, IN

(b) Commercial cams of various types  
Courtesy of The Ferguson Co.  
St. Louis, MO

FIGURE 8-5  
Cams and roller followers