PROBLEM 15.43

Rod $AB$ moves over a small wheel at $C$ while end $A$ moves to the right with a constant velocity of 500 mm/s. At the instant shown, determine (a) the angular velocity of the rod, (b) the velocity of end $B$ of the rod.

PROBLEM 15.52

Arm $AB$ rotates with an angular velocity of 20 rad/s counterclockwise. Knowing that the outer gear $C$ is stationary, determine (a) the angular velocity of gear $B$, (b) the velocity of the gear tooth located at Point $D$.

PROBLEM 15.66

In the position shown, bar $DE$ has a constant angular velocity of 10 rad/s clockwise. Knowing that $h = 500$ mm, determine (a) the angular velocity of bar $FBD$, (b) the velocity of Point $F$. 