

QUESTION

1. The figure shows a vertical rod of length l pivoted at the bottom. A force F is applied at the top of the rod, perpendicular to it. The rod is released from a horizontal position. Find the angular velocity of the rod when it is vertical.



2. A uniform rod of length l and mass m is pivoted at the bottom. A force F is applied at the top of the rod, perpendicular to it. The rod is released from a horizontal position. Find the angular velocity of the rod when it is vertical.

