

Problem discussed in the videos:

Videos (3) – (5):

An airliner arrives at the terminal and the engines are shut off. The rotor of one of the engines has an initial clockwise angular speed of 1930 rad/sec . The engine's rotation slows with angular acceleration 81.0 rad/sec^2 .

- (a) What is the angular speed after 10.0 sec ?
- (b) How long does it take rotor to come to rest?
- (c) How many revolutions does rotor make as it comes to rest?