

A circular DNA molecule with a single origin of replication (ori) and a single replication fork moving clockwise.

[illegible]

The diagram shows three pendulums hanging from a horizontal bar. Below each pendulum is a graph of its displacement  $y(t)$  and velocity  $\dot{y}(t)$  over time  $t$  from 0 to 2 seconds. The top graph (Pendulum 1) shows a sinusoidal displacement  $y_1(t) = \cos(\pi t)$  and a corresponding velocity  $\dot{y}_1(t) = -\pi \sin(\pi t)$ . The middle graph (Pendulum 2) shows a sinusoidal displacement  $y_2(t) = \sin(\pi t)$  and a corresponding velocity  $\dot{y}_2(t) = \pi \cos(\pi t)$ . The bottom graph (Pendulum 3) shows a square-wave displacement  $y_3(t)$  and a corresponding velocity  $\dot{y}_3(t)$  that is zero when the displacement is constant and non-zero during the transitions. A dashed line connects the equilibrium position of Pendulum 1 to the start of the graphs.

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# Planar Multibody Dynamics Solution Manual

**Sabine Zange**



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