



$$X(t+1) = X(t) + \dot{X}(t) \Delta t$$

 $Y(t+1) = Y(t) + \dot{Y}(t) \Delta t$
 $O(t+1) = O(t) + \dot{O}(t) \Delta t$

$$\dot{x}(t+1) = -\frac{F(t)}{M} \sin(\varphi(t) - \varphi(t)) \Delta t + \dot{x}(t)$$

$$\dot{y}(t+1) = \frac{F(t)}{M} \cos(\varphi(t) - \varphi(t)) \Delta t - g\Delta t + \dot{y}(t)$$

Governing

Equations