



































Driving Constraints-2

2. Translate a body with specified function:
$$\Phi = x_i - d_2(t) = 0$$
 and/or
$$\Phi = y_i - d_3(t) = 0$$
 • If driving the body with initial position $(\mathbf{x}_i^0, \mathbf{y}_i^0)$, initial velocity \mathbf{v}_i^0 , and specific angular acceleration \mathbf{a}_i yields
$$d_2(t) = x_i^0 + v_{ix}^0 t + \frac{1}{2} a_{ix} t^2 = \mathbf{x} - \text{coordinate at time t}$$
 • If the body is driven with constant velocity \mathbf{v}_i , then
$$d_2(t) = x_i^0 + v_{ix} t$$
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