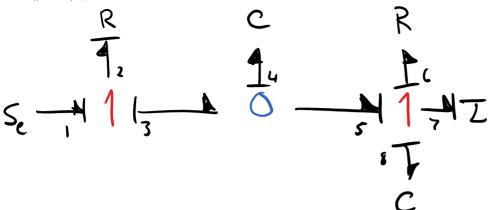
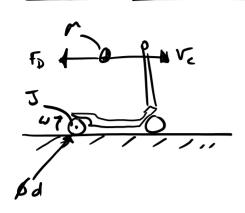
## eme171-l16-p01

Thursday, February 28, 2019 12:03 PM



$$\hat{q}_{4} = \frac{\left(S_{e_{1}} - \frac{24}{e_{4}}\right)}{R_{2}} - \frac{P_{7}}{I_{7}}$$

3) 
$$\dot{P}_7 = \frac{2u}{c_4} - R_c \frac{P_7}{I_7} - \frac{9s}{c_8}$$



Input: Se

Status: P2, P7, 69, P12

Fr= 1 CoApro

(1). P\_2=e\_2=e\_1-e\_3-e\_4=Se(4)-R\_3f\_3-TTf\_5=Se(4)-R\_3\frac{P\_3}{\pi\_1}-T\_{45}T\_7

@p=e7= e5-e6-e8= T45+4-R6f6- 29= T1 P2 -R6 T1 - R6 T1 - P6 T1 - P6

3  $\dot{q}_1 = f_1 = f_1 - f_1 = \frac{f_2}{f_1} - \frac{2}{d}f_{11} = \frac{f_2}{f_2} - \frac{2}{d}\frac{F_{12}}{F_{13}}$ 

(4)  $\dot{\rho}_{12} = e_{12} = e_{13} - e_{13} = \frac{2}{d} e_{16} - \frac{1}{2} c_0 A_0 \left(\frac{P_{12}}{E_0}\right)^2$ P12= 2 (0 AB (P12))

X=AX+BS

bre Eliver resion

$$\frac{R_{3}}{E_{3}} - \frac{T}{E_{7}} = 0 \quad 0$$

$$\frac{1}{C_{7}} = \frac{2}{AE_{1}} = \frac{1}{C_{7}} = 0$$

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$$\frac{1}{C_{7}} = \frac{2}{AE_{1}} = \frac{1}{E_{12}}$$

$$\frac{1}{C_{7}} = \frac{1}{C_{7}} = \frac{1}{C_{7}}$$

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 $\dot{x} = A\dot{x} + B\dot{u}$  full  $\dot{x} = A\dot{x} + B\dot{u}$  full  $\dot{y} = C\dot{z} + D\dot{u}$  form on that equation

$$U = \left(e_{i}(t)\right)$$

$$S: e_{i} = Me_{2}$$

$$e_{i} = me_{2}$$

$$\dot{\overline{X}} = A \overline{x} + B \overline{x}$$

$$\dot{\overline{X}} = S \dot{\overline{x}} + D \overline{x}$$

$$\dot{\overline{Y}} = C \overline{x} + D \overline{x}$$

eu = Ru ( P2 \_ e4 - 98/28)

$$e_{4} = R_{4} \left( \frac{P_{2}}{E_{1}} - \frac{e_{4} - q_{8}/c_{8}}{R_{c}} \right)$$

$$solve for end that State variables 
$$e_{4} = \frac{R_{4}P_{2}}{E_{2}} + \frac{R_{4}}{R_{c}} \frac{q_{8}}{c_{8}}$$

$$e_{4} = \frac{R_{4}P_{2}}{E_{2}} + \frac{R_{4}}{R_{c}} \frac{q_{8}}{c_{8}}$$

$$e_{7} = S_{e_{1}} - e_{4}$$$$