

m (R2 + I) Fr - IgsInd mgs/nd ngs/nd mg RSInd = I & + mar mgsind - Frp = ma ng RSind = I (nigsind - Fr) +mr (gsind-Fr) mg & sind = mk (g sind - Fr) - ml (g sind-fr) 951nx = 951nd - FT + 951nd - FT + 9 51 rd = + 3 Fr. > Fr - mg sind N51 Pemerue:

P)
$$F = m, \alpha_1 + m_2 \alpha_2$$

2) $Fr_{\mu} = m\alpha_2$

3) $M_z = dL_z$
 dt
 dt

F-FT = m, Q, => FT = F-m, Q, F-For= m, 7 For FTP = F 1+ 7 m; 1+ 2 m; F- M, Q, + M2Q 2 Q2 = Q1 - Q0 F-FT/= m,Q, Fin - m2Q2 - Q2 = Fi $F_{T} \cdot R = I \cdot \frac{Q_{0}}{R} \rightarrow Q_{0} - \frac{F_{T}R^{2}}{I} = \frac{F_{T} \cdot R^{2}}{\frac{2}{5}m_{2}R^{2}} = \frac{5F_{T}}{2m_{3}}$ $Q_1 = \frac{7F}{2m_2 \cdot (1 + 7m_1)} = \frac{7F}{2m_2 + 7m_1}$ Q2 = FTA = F 2m2 = m2 (1+7m, 2m2) $= \frac{1}{m_2 + 7m_1}$ N52 T-ma=-ma T. R= mR . Q1

