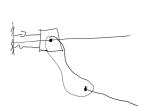


$$\tilde{\nabla} = u_1 \hat{n}_x + u_4 \hat{n}_x + u_5 n_y$$

$$\tilde{R}^{ab} = -k_{i} \hat{n}_x - c_{i} \hat{n}_x + f_{i} \hat{n}_x + f_{i} \hat{n}_y$$



$$\overline{R}^{Pd} = -cu_1 \hat{n}_{x} - kq_1 \hat{n}_{x}$$

$$+ f_{x} \hat{n}_{x} + f_{y} \hat{n}_{y}$$

$$F_{r}^{p,l} = V_{r} \cdot \tilde{R}^{ks}$$

$$F_{l}^{p,l} = -cv_{l} - kt_{l} + f_{x}$$

$$F_{s}^{p,l} = 0$$

$$F_{s}^{p,l} = 0$$

$$F_{s}^{p,l} = f_{s}$$

$$F_{3}^{RA} = 0$$

$$F_{3}^{RA} = -cu_{1} - k_{1} + f_{2}$$

$$F_{3} = 0$$

$$F_{5} = f_{5}$$

$$F_{4} = -c_{4} - k_{1} + f_{x}$$

$$F_{4} = -c_{4} - k_{1} + f_{x}$$

$$F_{5} = f_{5}$$

$$F_{4} = -c_{4} - k_{1} + f_{x}$$

$$F_{5} = f_{5}$$

$$F_{4} = -c_{4} - k_{1} + f_{x}$$

$$F_{1}^{*} = -m_{ab} \alpha^{i} \cdot \hat{n}_{x} = -m_{ab} (i_{1} + i_{1} i_{1})$$
 $F_{3}^{*} = 0$
 $F_{4}^{*} = -m_{ab} (i_{1} + i_{1} i_{2})$
 $F_{4}^{*} = -m_{ab} (i_{1} + i_{1} i_{2})$
 \vdots

$$F_{3}^{*} = 0$$

$$F_{4}^{*} = -M_{45} \left(\dot{U}_{1} + \dot{U}_{4} \right)$$

$$F_{1}^{(1)} = 0$$

$$F_{4}^{(1)} = -m_{45}(\dot{u}_{1} + \dot{u}_{4})$$

$$Cu_{1} - kg_{1} + f_{x} - m_{45}(\dot{u}_{1} + \dot{y}_{4}) = 0 \Rightarrow f_{x} = cu_{1} + kg_{1} - m_{45}\dot{u}_{1}$$

$$\Rightarrow$$
 $f_X = Cu, +k_2, -m_45 u,$