



3 56(4) VSn >0 $\hat{S} p^s \bar{n} \geq 0 \quad \text{and} \quad (\omega p^{s\perp} + r) \bar{n} \geq 0$ $\left| m = \rho^{s \perp} \overline{n} \right|$ $3 \begin{bmatrix} \hat{\omega} & v \end{bmatrix} \begin{bmatrix} x \\ y \\ z \end{bmatrix} \cdot \vec{n} \ge 0$ SE(2) $(m,\bar{n})\cdot(\omega,\nu)\geq 0$ \bar{n} . $\mathcal{L} \geqslant 0$ So(3) Rivleaux's method

b) IRC on the contact point?

plocker 6 do f

IKCS (4) SE(1) $(m, \bar{n})^T(\mathcal{L}, v) \geq 0$ 6 p

6 dof

Friction with stand F₁ = 00 f₂ $f_z = \{f_z \geqslant 0\}$ $F_1 = B_1 f_2$ [M275] Fz: Z[A176] F; [11 17]F3

(A) 180 = 2 [A]; To]B; fi f; efc; Fo = 26; 5; f; efci FER FEF

For GFEFC)
FEFC