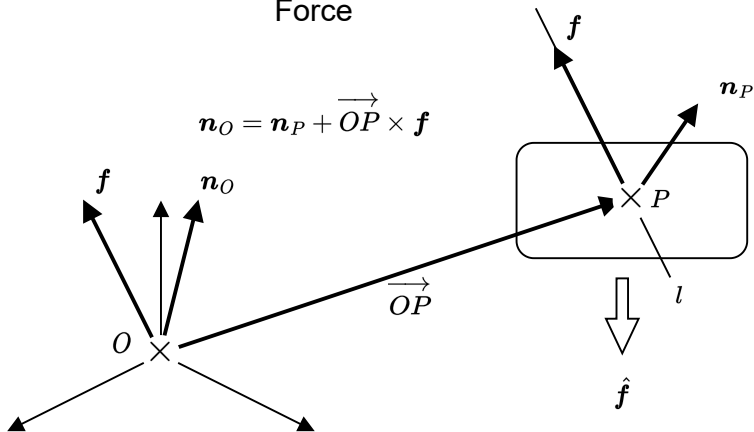


Force



$$\mathbf{n}_O = \mathbf{n}_P + \overrightarrow{OP} \times \mathbf{f}$$

$$\underline{\mathbf{n}}_O = \begin{bmatrix} n_{Ox} \\ n_{Oy} \\ n_{Oz} \end{bmatrix} \quad \mathbf{n}_O = n_{Ox}\mathbf{i} + n_{Oy}\mathbf{j} + n_{Oz}\mathbf{k}$$

$$\underline{\mathbf{f}} = \begin{bmatrix} f_x \\ f_y \\ f_z \end{bmatrix} \quad \mathbf{f} = f_x\mathbf{i} + f_y\mathbf{j} + f_z\mathbf{k}$$

$$\underline{\hat{\mathbf{f}}}_O = \begin{bmatrix} \underline{\mathbf{n}}_O \\ \underline{\mathbf{f}} \end{bmatrix}$$