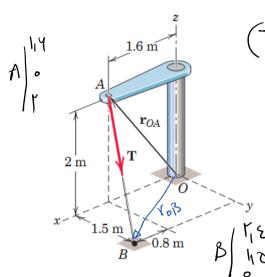
er on



$$\overrightarrow{T} = |T| \cdot \overrightarrow{e_{AB}} = \gamma_1 \xi_X \frac{\gamma_1 \lambda_2}{\sqrt{\gamma_1 \gamma_1 + \gamma_1 \delta_1 + \gamma_1 \gamma_2}}$$

$$\mathbf{T} = T\mathbf{n}_{AB} = 2.4 \left[\frac{0.8\mathbf{i} + 1.5\mathbf{j} - 2\mathbf{k}}{\sqrt{0.8^2 + 1.5^2 + 2^2}} \right]$$
$$= 0.731\mathbf{i} + 1.371\mathbf{j} - 1.829\mathbf{k} \text{ kN}$$

$$\mathbf{M}_O = \mathbf{r}_{OA} \times \mathbf{T} = (1.6\mathbf{i} + 2\mathbf{k}) \times (0.731\mathbf{i} + 1.371\mathbf{j} - 1.829\mathbf{k})$$

= -2.74\mathbf{i} + 4.39\mathbf{j} + 2.19\mathbf{k} \mathbf{k} \mathbf{N} \cdot \mathbf{m}

A MB MB Me

ی ب کسکار ریس سرد حرل یک معربه دلخذال

$$M_{e} = (M_{b} \cdot e) \cdot e$$

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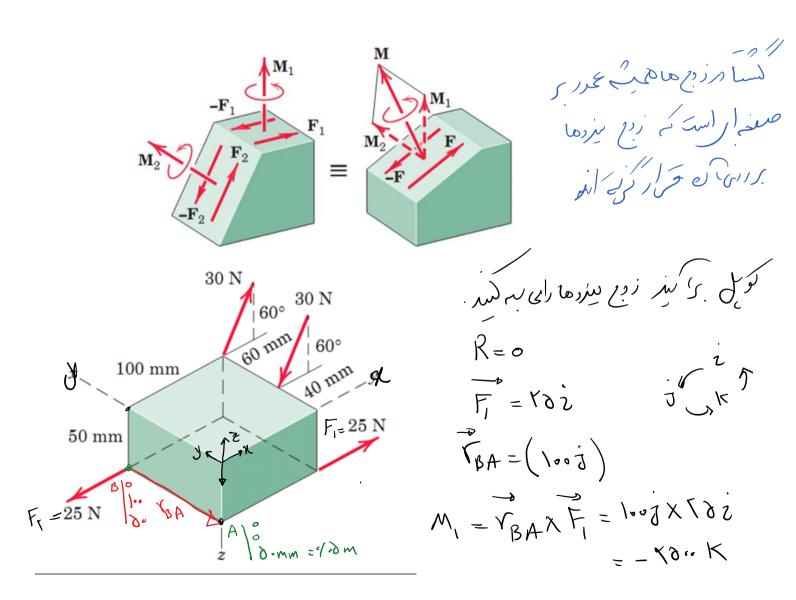
$$| \frac{1}{\sqrt{10}} | \frac{1}{\sqrt{10}}$$

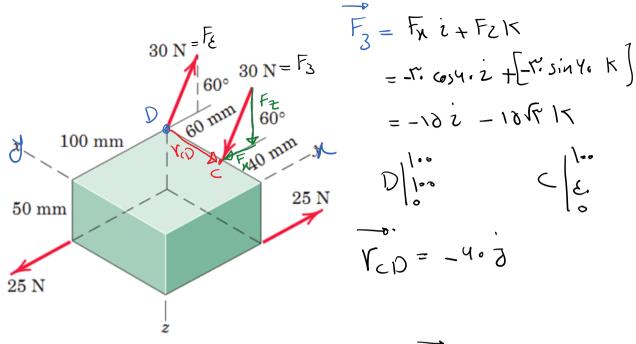
$$\frac{\partial}{\partial e_{cD}} = \frac{|Y_2 - q|}{\sqrt{|\Sigma + \Lambda|}} = \frac{|Y_2 - q|}{\sqrt{|\Sigma + \Lambda|}}$$

$$M_{c} = r_{cB} \chi T = 9 k \chi \left[\frac{1}{r_{1}} (1r_{1} - 10j + 9k) \right] = \frac{9}{r_{1}} \left[1r_{3} + 10i \right]$$

$$\left[i\delta l + bi \right]_{17} = 0 M$$

$$\begin{aligned}
e_{cD} &= \frac{11}{18}i - \frac{4}{18}j \\
M_{CD} &= \left[M_{C} \cdot e_{CD}\right] \cdot e_{CD} = \left[\frac{90}{11}\left[17j + 10i\right] \cdot \left(\frac{17}{18}i - \frac{9}{18}j\right] \stackrel{?}{e_{cD}}\right] \\
&= \frac{90}{11}\left[-\frac{11}{18}i + \frac{1}{18}i\right] \stackrel{?}{e_{cD}}
\end{aligned}$$

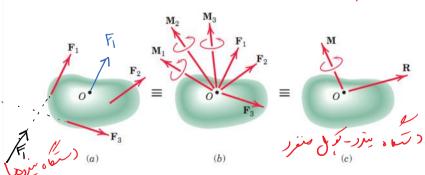




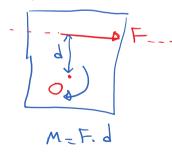
$$M_{r} = \sqrt{c0x} = \frac{18\sqrt{c}}{\sqrt{c0x}} = \frac{18\sqrt{c}}{\sqrt{c0x}} = \frac{18\sqrt{c}}{\sqrt{c}}$$

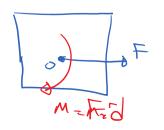
$$= -(4.00) \times + (4.00) \times i$$

R=F1+F7+P3 M=M1+M1+M3



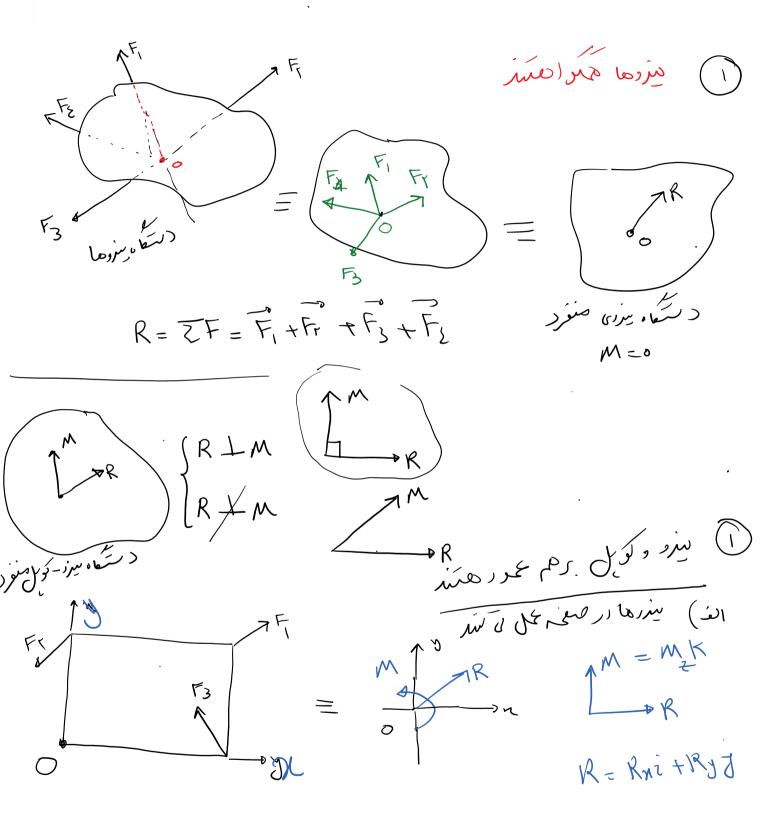
$$\begin{split} R_x &= \Sigma F_x \quad R_y = \Sigma F_y \quad R_z = \Sigma F_z \\ R &= \sqrt{(\Sigma F_x)^2 + (\Sigma F_y)^2 + (\Sigma F_z)^2} \\ \mathbf{M}_x &= \Sigma (\mathbf{r} \times \mathbf{F})_x \quad \mathbf{M}_y = \Sigma (\mathbf{r} \times \mathbf{F})_y \quad \mathbf{M}_z = \Sigma (\mathbf{r} \times \mathbf{F})_z \\ M &= \sqrt{M_x^2 + M_y^2 + M_z^2} \end{split}$$





$$M = \sqrt{M_x^2 + M_y^2 + M_z^2}$$





Z A TE

med alico) in R = Rz K

Z TF3

F2

O

N

N=R=K