No.

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材料力学 2022年

[1] (1) $R + T_a + T_b = P$

$T_a \cdot a + T_b \cdot b = P \cdot c$

(2) $\sigma_a = \dfrac{a c E_a \ell_b}{a^2 S_a E_a \ell_b + b^2 S_b E_b \ell_a} P$

$\sigma_b = \dfrac{b c E_b \ell_a}{a^2 S_a E_a \ell_b + b^2 S_b E_b \ell_a} P$

(3) $\frac{1}{4}$ 倍

$\left(\sigma_a = \frac{1}{4} \sigma_b \right)$

[2] (1) $M_{AC} = R_A x$

$M_{CB} = R_A x + M_C$

$\nu_{AC} = \dfrac{-R_A x^3 + 3\{R_A \ell^2 + 2M_C(\ell - a)\} x}{6EI}$

$\nu_{CB} = \dfrac{-R_A x^3 - 3M_C x^2 + 3(R_A \ell + 2M_C)\ell x - (2R_A \ell + 3M_C)\ell^2}{6EI}$

(2) $R_A = \dfrac{3M_C}{2\ell^3}(a^2 - \ell^2)$