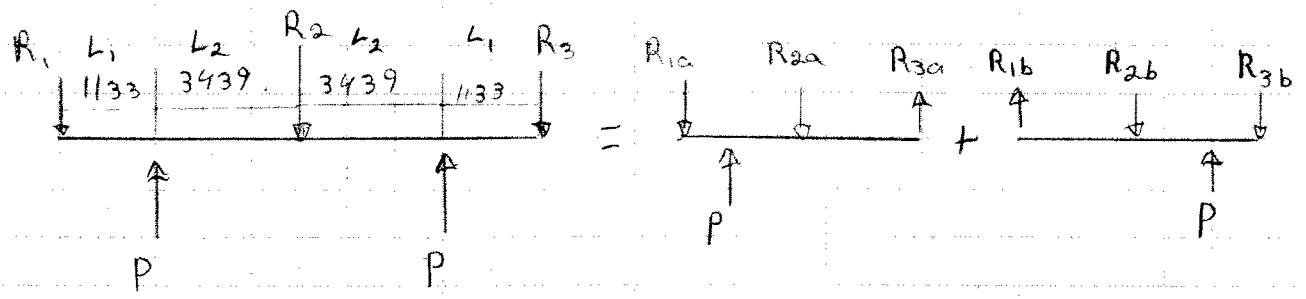


→ loads are symetric ∴ $R_{1a}=R_{3b}$, $R_{2a}=R_{2b}$, $R_{3a}=R_{1b}$

$$R_{1a}=R_{3b}=\frac{P\cdot 3439}{4\cdot(4572)^3}\left[4\cdot(4572)^2-1133(4572+1133)\right]$$

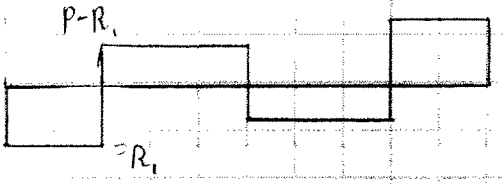
$$=0.694P$$

$$R_{2a}=R_{2b}=\frac{P\cdot 1133}{2\cdot(4572)^3}\left[2\cdot 4572^2+3439(4572+1133)\right]$$

$$=0.364P$$

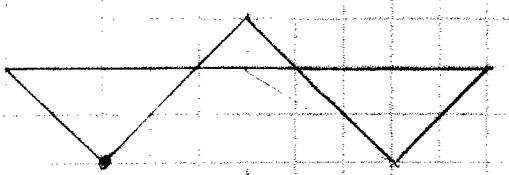
$$R_{3a}=R_{1b}=-\frac{P\cdot 1133\cdot 3439}{4\cdot(4572)^3}(4572+1133)$$

$$=-0.058P$$



Check balance:

$$P=R_{1a}+R_{2a}+R_{3a}$$
$$=0.694P+0.364P-0.058P$$
$$P=P$$



$$\therefore R_1=R_3=R_{1a}+R_{1b}=0.694P-0.058P$$
$$=0.636P$$

$$M_{max}=R_1\cdot L_1$$
$$=\underline{0.636P\cdot L_1}$$

$$R_2=R_{2a}+R_{2b}=0.364P+0.364P$$
$$=0.728P$$