

	$\bar{M}_{ab} = \frac{FL}{8}$ $\bar{Z}_{ab}^l = -\frac{F}{2}$	$\bar{M}_{ba} = -\frac{FL}{8}$ $\bar{Z}_{ba}^l = -\frac{F}{2}$	$\bar{M}_{ab} = \frac{3}{16}FL$ $\bar{Z}_{ab}^l = -\frac{11F}{16}$
	$\frac{fL^2}{12}$ $-\frac{fL}{2}$	$-\frac{fL^2}{12}$ $-\frac{fL}{2}$	$\times$ $\times$
	$\frac{fL^2}{30}$ $-\frac{3fL}{20}$	$-\frac{fL^2}{20}$ $-\frac{7fL}{20}$	$\times$ $\times$
	$\frac{EI}{h} \alpha_t \Delta t$ 0	$-\frac{EI}{h} \alpha_t \Delta t$ 0	$\times$ $\times$
	$\frac{Fab^2}{L^2}$ $\frac{Fb}{L} \left( \frac{a(a-b)}{L^2} - 1 \right)$	$-\frac{Fa^2b}{L^2}$ $\frac{Fa}{L} \left( \frac{b(b-a)}{L^2} - 1 \right)$	$\times$ $\times$
	$\frac{Mb}{L^2} (2L - 3b)$ $-\frac{M}{L} \left( 1 + \frac{b(2L-3b)+a(2L-3a)}{L^2} \right)$	$\frac{Ma}{L^2} (2L - 3a)$ $\frac{M}{L} \left( 1 + \frac{b(2L-3b)+a(2L-3a)}{L^2} \right)$	$\times$ $\times$

$M_{ab} = \bar{M}_{ab} + k \left( 2\varphi_a + \varphi_b + 3 \frac{w_b^l - w_a^l}{L} \right)$ $M_{ba} = \bar{M}_{ba} + k \left( \varphi_a + 2\varphi_b + 3 \frac{w_b^l - w_a^l}{L} \right)$	$M_{ab} = \bar{M}_{ab} + \frac{3k}{2} \left( \varphi_a + \frac{w_b^l - w_a^l}{L} \right)$ $\times$	$M_{ba} = \bar{M}_{ba} + \frac{3k}{2} \left( \varphi_b + \frac{w_b^l - w_a^l}{L} \right)$ $\times$
$Z_{ab}^l = \bar{Z}_{ab}^l - \frac{3k}{L} \left( \varphi_a + \varphi_b + 2 \frac{w_b^l - w_a^l}{L} \right)$ $Z_{ba}^l = \bar{Z}_{ba}^l + \frac{3k}{L} \left( \varphi_a + \varphi_b + 2 \frac{w_b^l - w_a^l}{L} \right)$	$Z_{ab}^l = \bar{Z}_{ab}^l - \frac{3k}{2L} \left( \varphi_a + \frac{w_b^l - w_a^l}{L} \right)$ $Z_{ba}^l = \bar{Z}_{ba}^l + \frac{3k}{2L} \left( \varphi_a + \frac{w_b^l - w_a^l}{L} \right)$	$Z_{ab}^l = \bar{Z}_{ab}^l - \frac{3k}{2L} \left( \varphi_b + \frac{w_b^l - w_a^l}{L} \right)$ $Z_{ba}^l = \bar{Z}_{ba}^l + \frac{3k}{2L} \left( \varphi_b + \frac{w_b^l - w_a^l}{L} \right)$
$X_{ab}^l = \bar{X}_{ab}^l - n(u_b^l - u_a^l)$ $X_{ba}^l = \bar{X}_{ba}^l + n(u_b^l - u_a^l)$	$X = X^l \cos \alpha - Z^l \sin \alpha$ $Z = X^l \sin \alpha + Z^l \cos \alpha$	$u^l = u \cos \alpha + w \sin \alpha$ $w^l = -u \sin \alpha + w \cos \alpha$

