	$\overline{X}^l_{ab}$ $\overline{M}_{ab}$ $\overline{M}_{ba}$ $\overline{X}^l_{ba}$ $\overline{Z}^l_{ab}$ $\overline{Z}^l_{ba}$	$\overline{X}^l_{ab}$ $\overline{\overline{M}}_{ab}$ $\overline{X}^l_{ba}$ $\overline{Z}^l_{ab}$ $\overline{\overline{Z}}^l_{ba}$	$\overline{X}^l_{ab}$ $\overline{\overline{M}}_{ba}$ $\overline{X}^l_{ba}$ $\overline{\overline{Z}}^l_{ab}$ $\overline{\overline{Z}}^l_{ba}$
F, L/2 L/2	$\frac{FL}{8}$ $-\frac{FL}{8}$	$\frac{3}{16}FL$ ✘	✘ $-\frac{3}{16}FL$
	$-\frac{F}{2}$ $-\frac{F}{2}$	$-\frac{11F}{16}$ $-\frac{5F}{16}$	$-\frac{5F}{16}$ $-\frac{11F}{16}$
f, L	$\frac{fL^2}{12}$ $-\frac{fL^2}{12}$	$\frac{fL^2}{8}$ ✘	✘ $-\frac{fL^2}{8}$
	$-\frac{fL}{2}$ $-\frac{fL}{2}$	$-\frac{5fL}{8}$ $-\frac{3fL}{8}$	$-\frac{3fL}{8}$ $-\frac{5fL}{8}$
f, L	$\frac{fL^2}{30}$ $-\frac{fL^2}{20}$	$\frac{7fL^2}{120}$ ✘	✘ $-\frac{fL^2}{15}$
	$-\frac{3fL}{20}$ $-\frac{7fL}{20}$	$-\frac{27fL}{120}$ $-\frac{33fL}{120}$	$-\frac{fL}{10}$ $-\frac{2fL}{5}$
t_h, h, t_d, $\Delta t = t_d - t_h$	$\frac{EI}{h}\alpha_t\Delta t$ $-\frac{EI}{h}\alpha_t\Delta t$	$\frac{3}{2}\frac{EI}{h}\alpha_t\Delta t$ ✘	✘ $-\frac{3}{2}\frac{EI}{h}\alpha_t\Delta t$
	0 0	$-\frac{3EI}{2hL}\alpha_t\Delta t$ $\frac{3EI}{2hL}\alpha_t\Delta t$	$\frac{3EI}{2hL}\alpha_t\Delta t$ $-\frac{3EI}{2hL}\alpha_t\Delta t$
F, a b	$\frac{Fab^2}{L^2}$ $-\frac{Fa^2b}{L^2}$	$\frac{Fab}{2L^2}(b+L)$ ✘	✘ $-\frac{Fab}{2L^2}(a+L)$
	$\frac{Fb}{L}\left(\frac{a(a-b)}{L^2}-1\right)$ $\frac{Fa}{L}\left(\frac{b(b-a)}{L^2}-1\right)$	$-\frac{Fb}{L}\left(\frac{a(b+L)}{2L^2}+1\right)$ $\frac{Fa}{L}\left(\frac{b(b+L)}{2L^2}-1\right)$	$\frac{Fb}{L}\left(\frac{a(a+L)}{2L^2}-1\right)$ $-\frac{Fa}{L}\left(\frac{b(a+L)}{2L^2}+1\right)$
M, a b	$\frac{Mb}{L^2}(2L-3b)$ $\frac{Ma}{L^2}(2L-3a)$	$\frac{M}{2L^2}(L^2-3b^2)$ ✘	✘ $\frac{M}{2L^2}(L^2-3a^2)$
	$-\frac{M}{L}\left(1+\frac{b(2L-3b)+a(2L-3a)}{L}\right)$ $\frac{M}{L}\left(1+\frac{b(2L-3b)+a(2L-3a)}{L}\right)$	$-\frac{M}{L}\left(1+\frac{L^2-3b^2}{2L^2}\right)$ $\frac{M}{L}\left(1+\frac{L^2-3b^2}{2L^2}\right)$	$-\frac{M}{L}\left(1+\frac{L^2-3a^2}{2L^2}\right)$ $\frac{M}{L}\left(1+\frac{L^2-3a^2}{2L^2}\right)$
	$M_{ab}=\overline{M}_{ab}+k\left(2\varphi_a+\varphi_b+3\frac{w^l_b-w^l_a}{L}\right)$ $\mathbf{k=\frac{2EI}{L}}$ $M_{ba}=\overline{M}_{ba}+k\left(\varphi_a+2\varphi_b+3\frac{w^l_b-w^l_a}{L}\right)$	$M_{ab}=\overline{\overline{M}}_{ab}+\frac{3k}{2}\left(\varphi_a+\frac{w^l_b-w^l_a}{L}\right)$ ✘	✘ $M_{ba}=\overline{\overline{M}}_{ba}+\frac{3k}{2}\left(\varphi_b+\frac{w^l_b-w^l_a}{L}\right)$
	$Z^l_{ab}=\overline{Z}^l_{ab}-\frac{3k}{L}\left(\varphi_a+\varphi_b+2\frac{w^l_b-w^l_a}{L}\right)$ $Z^l_{ba}=\overline{Z}^l_{ba}+\frac{3k}{L}\left(\varphi_a+\varphi_b+2\frac{w^l_b-w^l_a}{L}\right)$	$Z^l_{ab}=\overline{\overline{Z}}^l_{ab}-\frac{3k}{2L}\left(\varphi_a+\frac{w^l_b-w^l_a}{L}\right)$ $Z^l_{ba}=\overline{\overline{Z}}^l_{ba}+\frac{3k}{2L}\left(\varphi_a+\frac{w^l_b-w^l_a}{L}\right)$	$Z^l_{ab}=\overline{\overline{Z}}^l_{ab}-\frac{3k}{2L}\left(\varphi_b+\frac{w^l_b-w^l_a}{L}\right)$ $Z^l_{ba}=\overline{\overline{Z}}^l_{ba}+\frac{3k}{2L}\left(\varphi_b+\frac{w^l_b-w^l_a}{L}\right)$
	$X^l_{ab}=\overline{X}^l_{ab}-n(u^l_b-u^l_a)$ $\mathbf{n=\frac{EA}{L}}$ $X^l_{ba}=\overline{X}^l_{ab}+n(u^l_b-u^l_a)$	$X=X^l\cos\alpha-Z^l\sin\alpha$ $u^l=u\cos\alpha+w\sin\alpha$ $Z=X^l\sin\alpha+Z^l\cos\alpha$ $w^l=-u\sin\alpha+w\cos\alpha$	

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