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	$\int_{0}^{L} M_0 \cdot M_1 \cdot dx$	1) M ₁	2)M_1	3) M ₁	4) 4)	5) M_1	6) M ₁ L
1)		$M_0\cdot M_1\cdot \frac{L}{E\cdot J}$	$\frac{1}{2} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{2} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{2}{3} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{2} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{2} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$
2)	L L	$\frac{1}{2} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{3} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{6} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{3} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{4} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{6} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \left(1 + \frac{c}{L}\right) \cdot \frac{L}{\mathbf{E} \cdot \mathbf{J}}$
3)	M ₀	$\frac{1}{2} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{L}{E \cdot \mathbf{J}}$	$\frac{1}{6} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{3} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{3} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{4} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{6} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \left(1 + \frac{\mathbf{d}}{\mathbf{L}}\right) \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$
4)		$\frac{2}{3} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{3} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{3} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{8}{15} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{5}{12} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{3} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \left(1 + \frac{\mathbf{c} \cdot \mathbf{d}}{\mathbf{L}^2}\right) \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$
5)	M_0	$\frac{1}{2} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{L}{E \cdot \mathbf{J}}$	$\frac{1}{4} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{4} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{5}{12} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{3} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$c \leq d: \frac{3L^2 - 4c^2}{12 \cdot d \cdot L} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$
6)	M_0	$\frac{1}{2} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{L}{E \cdot \mathbf{J}}$	$\frac{1}{6} \cdot \left(1 + \frac{a}{L}\right) \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{6} \cdot \left(1 + \frac{b}{L}\right) \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{3} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \left(1 + \frac{\mathbf{a} \cdot \mathbf{b}}{\mathbf{L}^2}\right) \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$a \le b: \frac{3L^2 - 4a^2}{12 \cdot b \cdot L} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$c \le a: \frac{L^2 - a^2 - d^2}{6 \cdot b \cdot c} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$
7)		$\frac{1}{2} \cdot \mathbf{M}_1 \cdot \left(\mathbf{M}_{0L} + \mathbf{M}_{0R}\right) \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{6} \cdot \mathbf{M}_1 \cdot \left(\mathbf{M}_{0L} + 2\mathbf{M}_{0R} \right) \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{6} \cdot \mathbf{M}_1 \cdot \left(2\mathbf{M}_{0L} + \mathbf{M}_{0R} \right) \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{3} \cdot \mathbf{M}_1 \cdot \left(\mathbf{M}_{0L} + \mathbf{M}_{0R}\right) \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{4} \cdot \mathbf{M}_{1} \cdot \left(\mathbf{M}_{0L} + \mathbf{M}_{0R}\right) \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{6} \cdot \mathbf{M}_1 \cdot \left[\mathbf{M}_{0L} \cdot \left(1 + \frac{d}{L} \right) + \mathbf{M}_{0R} \cdot \left(1 + \frac{c}{L} \right) \right] \cdot \frac{L}{\mathbf{E} \cdot \mathbf{J}}$
8)	$\begin{array}{c c} M_{0L} = M_{0R} = M_0 \\ M_0 \\ \hline \\ L \\ \end{array} \\ - M_0 \\ \hline \\ L \\ \end{array}$	0	$-\frac{1}{6} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{6} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	0	0	$\frac{1}{6} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \left(1 - \frac{2c}{L}\right) \cdot \frac{L}{\mathbf{E} \cdot \mathbf{J}}$
9)	M ₀	$\frac{1}{4} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{L}{E \cdot \mathbf{J}}$	0	$\frac{1}{4} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{6} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{8} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{4} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \left(\frac{d}{L}\right) \cdot \frac{L}{E \cdot J}$
10)	M ₀ /2	$\frac{1}{4} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{4} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{L}{E \cdot J}$	0	$\frac{1}{6} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{8} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{4} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \left(\frac{\mathbf{c}}{L}\right) \cdot \frac{L}{\mathbf{E} \cdot \mathbf{J}}$
11)	$M_{0L} \neq M_{0R}$ $M_{0L} \qquad	$\frac{1}{2} \cdot \mathbf{M}_1 \cdot \left(\mathbf{M}_{0L} - \mathbf{M}_{0R}\right) \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{6} \cdot \mathbf{M}_1 \cdot \left(\mathbf{M}_{0L} - 2\mathbf{M}_{0R} \right) \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{6} \cdot \mathbf{M}_1 \cdot \left(2\mathbf{M}_{0L} - \mathbf{M}_{0R} \right) \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{3} \cdot \mathbf{M}_1 \cdot \left(\mathbf{M}_{0L} - \mathbf{M}_{0R}\right) \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{4} \cdot \mathbf{M}_{1} \cdot \left(\mathbf{M}_{0L} - \mathbf{M}_{0R}\right) \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{6} \cdot \mathbf{M}_{1} \cdot \left[\mathbf{M}_{0L} \cdot \left(1 + \frac{d}{L} \right) + \mathbf{M}_{0R} \cdot \left(1 + \frac{c}{L} \right) \right] \cdot \frac{L}{\mathbf{E} \cdot \mathbf{J}}$
13)		$\frac{2}{3} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{4} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{5}{12} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{7}{15} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{17}{48} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{12} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \left(5 - \frac{c}{L} - \frac{c^2}{L^2} \right) \cdot \frac{L}{\mathbf{E} \cdot \mathbf{J}}$
14)		$\frac{2}{3} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{L}{E \cdot J}$	$\frac{5}{12} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{4} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{L}{E \cdot J}$	$\frac{7}{15} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{L}{E \cdot \mathbf{J}}$	$\frac{17}{48} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{12} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \left(5 - \frac{d}{L} - \frac{d^2}{L^2} \right) \cdot \frac{L}{\mathbf{E} \cdot \mathbf{J}}$
15)	M ₀	$\frac{1}{3} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{4} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{12} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{5} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{L}{E \cdot J}$	$\frac{7}{48} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{12} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \left(1 + \frac{c}{L} + \frac{c^2}{L^2}\right) \cdot \frac{L}{\mathbf{E} \cdot \mathbf{J}}$
16)	M ₀	$\frac{1}{3} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{12} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{4} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{5} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{7}{48} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{12} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \left(1 + \frac{\mathbf{d}}{\mathbf{L}} + \frac{\mathbf{d}^2}{\mathbf{L}^2}\right) \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$
)2+)3	M_x L M_x Ikisi esit	L Ikisi esit	*)4 Parabol M_x	$= \frac{M_x}{L}$	*)5 + *)6 $\frac{L/2}{L/2}$ I/2 L/2 Ikisi esit	a b a b M _x M _x L Dördü esit



Yapı Statiği

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	$\int_{0}^{L} M_0 \cdot M_1 \cdot dx$	7) M _{1L} M _{1R} M _{1R}	8) $M_1 \xrightarrow{M_{1L} = M_{1R} = M_1}_{L} \xrightarrow{-M_1}_{L}$	9) M ₁	10) M ₁ /2
1)		$\frac{1}{2} \cdot \mathbf{M}_0 \cdot \left(\mathbf{M}_{1L} + \mathbf{M}_{1R} \right) \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	0	$\frac{1}{4} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{4} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{L}{E \cdot J}$
2)	L L	$\frac{1}{6} \cdot \mathbf{M}_0 \cdot \left(\mathbf{M}_{1L} + 2\mathbf{M}_{1R} \right) \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$-\frac{1}{6} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	0	$\frac{1}{4} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{L}{E \cdot J}$
3)	M ₀	$\frac{1}{6} \cdot \mathbf{M}_0 \cdot \left(2\mathbf{M}_{1L} + \mathbf{M}_{1R} \right) \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{6} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{4} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{L}{E \cdot J}$	0
4)		$\frac{1}{3} \cdot \mathbf{M}_0 \cdot \left(\mathbf{M}_{1L} + \mathbf{M}_{1R} \right) \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	0	$\frac{1}{6} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{6} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{L}{E \cdot \mathbf{J}}$
5)	M ₀ L/2 L/2	$\frac{1}{4} \cdot \mathbf{M}_0 \cdot \left(\mathbf{M}_{1L} + \mathbf{M}_{1R} \right) \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	0	$\frac{1}{8} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{8} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{L}{E \cdot \mathbf{J}}$
6)	M_0	$\frac{1}{6} \cdot \mathbf{M}_0 \cdot \left[\mathbf{M}_{1L} \cdot \left(1 + \frac{\mathbf{b}}{L} \right) + \mathbf{M}_{1R} \cdot \left(1 + \frac{\mathbf{a}}{L} \right) \right] \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{6} \cdot \left(1 - \frac{2a}{L}\right) M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{4} \cdot \left(\frac{b}{L}\right) M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{4} \cdot \left(\frac{a}{L}\right) M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$
7)	M_{0L}	$\frac{1}{6} [M_{0L} (2M_{1L} + M_{1R}) + M_{0R} (M_{1L} + 2M_{1R})] \frac{L}{E \cdot J}$	$\frac{1}{6} \cdot \mathbf{M}_1 \cdot \left(\mathbf{M}_{0L} - \mathbf{M}_{0R} \right) \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{4} \cdot \mathbf{M}_1 \cdot \mathbf{M}_{0L} \cdot \frac{L}{E \cdot J}$	$\frac{1}{4} \cdot M_1 \cdot M_{0R} \cdot \frac{L}{E \cdot J}$
8)	$\begin{array}{c} M_{0L} = M_{0R} = M_0 \\ M_0 \\ \hline \\ L \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	$\frac{1}{6} \cdot \mathbf{M}_0 \cdot \left(\mathbf{M}_{1L} + \mathbf{M}_{1R} \right) \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{3} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{4} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$-\frac{1}{4} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$
9)	M ₀ M ₀ /2	$\frac{1}{4} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{4} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{L}{E \cdot \mathbf{J}}$	$\frac{1}{4} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$-\frac{1}{8} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$
10)	M ₀ /2	$\frac{1}{4} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$-\frac{1}{4} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$-\frac{1}{8} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{4} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{L}{E \cdot \mathbf{J}}$
11)	$M_{0L} \neq M_{0R}$ M_{0L} M_{0L} L	$\frac{1}{6} [M_{0L} (2M_{1L} + M_{1R}) - M_{0R} (M_{1L} + 2M_{1R})] \frac{L}{E \cdot J}$	$\frac{1}{6} \cdot \mathbf{M}_1 \cdot \left(\mathbf{M}_{0L} + \mathbf{M}_{0R} \right) \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$?	?
13)		$\frac{1}{12} \cdot \mathbf{M}_0 \cdot \left(5\mathbf{M}_{1\mathrm{L}} + 3\mathbf{M}_{1\mathrm{R}}\right) \cdot \frac{\mathrm{L}}{\mathrm{E} \cdot \mathrm{J}}$	$\frac{1}{6} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{7}{24} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{24} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$
14)	M ₀	$\frac{1}{12} \cdot \mathbf{M}_0 \cdot \left(3\mathbf{M}_{1L} + 5\mathbf{M}_{1R} \right) \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$-\frac{1}{6} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{24} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{7}{24} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$
15)	L L	$\frac{1}{12} \cdot \mathbf{M}_0 \cdot \left(\mathbf{M}_{1L} + 3\mathbf{M}_{1R}\right) \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$-\frac{1}{6} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$-\frac{1}{24} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{5}{24} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$
16)		$\frac{1}{12} \cdot \mathbf{M}_0 \cdot \left(3\mathbf{M}_{1L} + \mathbf{M}_{1R} \right) \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{6} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{5}{24} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$-\frac{1}{24}\cdot M_1\cdot M_0\cdot \frac{L}{E\cdot J}$
*)	7 ^M _{xL}	$M_{xL} \underbrace{\blacksquare} M_{xR} = \underbrace{L} \underbrace{\blacksquare} M_{xR}$	$M_{xL} \underbrace{\square}_{L} M_{xR}$ $M_{xL} \underbrace{\square}_{L} M_{xR}$	*)9 + *)10 $M_x = L$ $M_x = L$ $M_x = L$ Ikisi esit	$M_x/2$ $M_x/2$ L L $M_x/2$ $M_x/$

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$$\begin{array}{c} 11) & \begin{array}{c} \begin{array}{c} \begin{array}{c} 1\\ \\ \\ \\ \\ \\ \\ \\ \end{array} \end{array} \\ \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \frac{1}{2} \cdot M_0 \cdot (M_{1L} - M_{1R}) \cdot \frac{L}{E \cdot J} \\ \\ \\ \\ \\ \end{array} \\ \\ \end{array} \\ \begin{array}{c} \frac{1}{6} \cdot M_0 \cdot (2M_{1L} - M_{1R}) \cdot \frac{L}{E \cdot J} \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \frac{1}{6} \cdot M_0 \cdot (M_{1L} - M_{1R}) \cdot \frac{L}{E \cdot J} \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \frac{1}{3} \cdot M_0 \cdot (M_{1L} - M_{1R}) \cdot \frac{L}{E \cdot J} \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \frac{1}{6} \cdot M_0 \cdot (M_{1L} - M_{1R}) \cdot \frac{L}{E \cdot J} \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \frac{1}{6} \cdot M_0 \cdot (M_{1L} - M_{1R}) \cdot \frac{L}{E \cdot J} \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \frac{1}{6} \left[M_{0L} (2M_{1L} - M_{1R}) + M_{0R} (M_{1L} - 2M_{1R}) \right] \frac{L}{E \cdot J} \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \frac{1}{6} \left[M_{0L} (2M_{1L} - M_{1R}) + M_{0R} (M_{1L} - 2M_{1R}) \right] \frac{L}{E \cdot J} \\ \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \frac{1}{6} \left[M_{0L} (2M_{1L} - M_{1R}) - M_{0R} (M_{1L} - 2M_{1R}) \right] \frac{L}{E \cdot J} \\ \\ \end{array} \\ \begin{array}{c} \frac{1}{6} \left[M_{0L} (2M_{1L} - M_{1R}) - M_{0R} (M_{1L} - 2M_{1R}) \right] \frac{L}{E \cdot J} \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \frac{1}{12} \cdot M_0 \cdot (5M_{1L} - 3M_{1R}) \cdot \frac{L}{E \cdot J} \\ \\ \frac{1}{12} \cdot M_0 \cdot (3M_{1L} - 5M_{1R}) \cdot \frac{L}{E \cdot J} \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \frac{1}{12} \cdot M_0 \cdot (3M_{1L} - 3M_{1R}) \cdot \frac{L}{E \cdot J} \\ \\ \frac{1}{12} \cdot M_0 \cdot (3M_{1L} - M_{1R}) \cdot \frac{L}{E \cdot J} \\ \end{array} \\ \end{array}$$

M_x M_x

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	$\int\limits_{0}^{L} M_0 \cdot M_1 \cdot dx$	13) M ₁	14)	15) <u></u> M ₁	
1)	M_0	$\frac{2}{3} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{2}{3} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{3} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{3} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$
2)	L M ₀	$\frac{1}{4} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{5}{12} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{4} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{12} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$
3)	M ₀	$\frac{5}{12} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{4} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{12} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{4} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{L}{E \cdot J}$
4)	Mo	$\frac{7}{15} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{7}{15} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{5} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{5} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{L}{E \cdot J}$
5)	M ₀	$\frac{7}{48} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{17}{48} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{7}{48} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{7}{48} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$
6)		$\frac{1}{12} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \left(5 - \frac{a}{L} - \frac{a^2}{L^2} \right) \cdot \frac{L}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{12} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \left(5 - \frac{\mathbf{b}}{\mathbf{L}} + \frac{\mathbf{b}^2}{\mathbf{L}^2} \right) \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{12} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \left(1 + \frac{\mathbf{a}}{\mathbf{L}} + \frac{\mathbf{a}^2}{\mathbf{L}^2}\right) \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{12} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \left(1 + \frac{\mathbf{b}}{\mathbf{L}} + \frac{\mathbf{b}^2}{\mathbf{L}^2}\right) \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$
7)	M_{0L}	$\frac{1}{12} \cdot \mathbf{M}_1 \cdot \left(5\mathbf{M}_{0L} + 3\mathbf{M}_{0R} \right) \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{12} \cdot \mathbf{M}_1 \cdot \left(3\mathbf{M}_{0\mathrm{L}} + 5\mathbf{M}_{0\mathrm{R}} \right) \cdot \frac{\mathrm{L}}{\mathrm{E} \cdot \mathrm{J}}$	$\frac{1}{12} \cdot \mathbf{M}_1 \cdot \left(\mathbf{M}_{0L} + 3\mathbf{M}_{0R} \right) \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{12} \cdot \mathbf{M}_1 \cdot \left(3\mathbf{M}_{0L} + \mathbf{M}_{0R} \right) \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$
8)	$ \begin{array}{c c} M_{0L} = M_{0R} = M_0 \\ M_0 & & \\ \hline L \\ \hline L \\ \hline \end{array} $	$\frac{1}{6} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$-\frac{1}{6} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$-\frac{1}{6}\cdot \mathbf{M}_{1}\cdot \mathbf{M}_{0}\cdot \frac{\mathbf{L}}{\mathbf{E}\cdot \mathbf{J}}$	$\frac{1}{6} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$
9)	M ₀	$\frac{7}{24} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{24} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$-\frac{1}{24} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{5}{24} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$
10)	M ₀ /2	$\frac{1}{24} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{7}{24} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{5}{24} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$-\frac{1}{24}\cdot M_1\cdot M_0\cdot \frac{L}{E\cdot J}$
11)	$\begin{array}{c} M_{0L} \neq M_{0R} \\ M_{0L} \\ \end{array} \\ M_{0L} \\ L \\ \end{array}$	$\frac{1}{12} \cdot \mathbf{M}_1 \cdot \left(5\mathbf{M}_{0L} - 3\mathbf{M}_{0R} \right) \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{3} \cdot \mathbf{M}_1 \cdot \left(3\mathbf{M}_{0\mathrm{L}} + 5\mathbf{M}_{0\mathrm{R}} \right) \cdot \frac{\mathrm{L}}{\mathrm{E} \cdot \mathrm{J}}$	$\frac{1}{12} \cdot \mathbf{M}_1 \cdot \left(\mathbf{M}_{0L} - 3\mathbf{M}_{0R}\right) \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{12} \cdot \mathbf{M}_1 \cdot \left(3\mathbf{M}_{0L} - \mathbf{M}_{0R} \right) \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$
13)		$\frac{8}{15} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{11}{30} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{2}{15} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{3}{10} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$
14)		$\frac{11}{30} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{8}{15} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{3}{10} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{2}{15} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$
15)		$\frac{2}{15} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{3}{10} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{5} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{1}{30} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$
16)	M ₀	$\frac{3}{10} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{\mathbf{L}}{\mathbf{E} \cdot \mathbf{J}}$	$\frac{2}{15} \cdot M_1 \cdot M_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{30} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{L}{E \cdot J}$	$\frac{1}{5} \cdot \mathbf{M}_1 \cdot \mathbf{M}_0 \cdot \frac{L}{E \cdot J}$
	*)13 +	M_x M_x	M_x M_x M_x M_x M_x M_x M_x M_x	*)15 + *)16	M_{x} M_{x} M_{x} M_{x} M_{x} M_{x} M_{x} M_{x} M_{x} M_{x} M_{x} M_{x} M_{x} M_{x} M_{x} M_{x} M_{x} M_{x}



Yapı Statiği

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