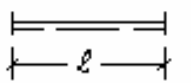
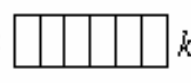
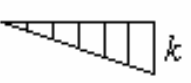

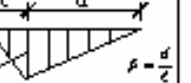
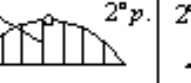
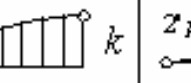
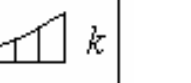
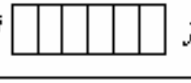


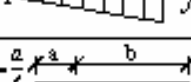



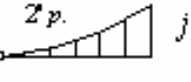
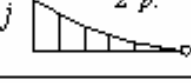

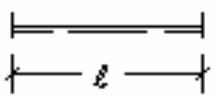
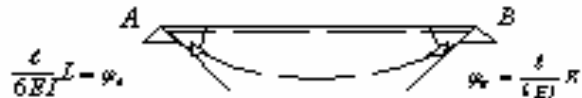




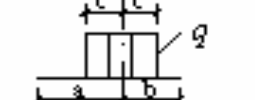
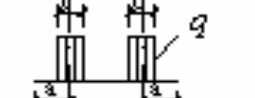
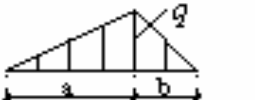
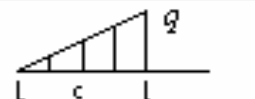



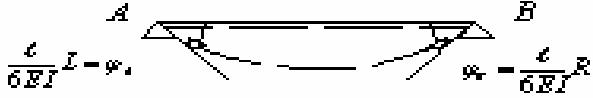
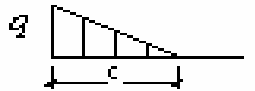
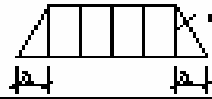
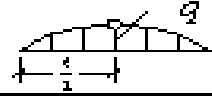
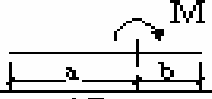
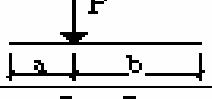
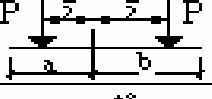
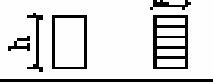
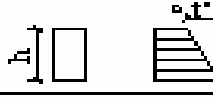
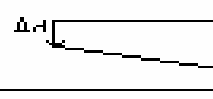
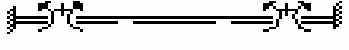


$$\int j(x)k(x)dx \text{ çarpım integral değerleri}$$

								
1		$ljk$	$\frac{1}{2}ljk$	$\frac{1}{2}lj(k_1+k_2)$	$\frac{1}{2}ljk$	$\frac{2}{3}ljk$	$\frac{2}{3}ljk$	$\frac{1}{3}ljk$
2		$\frac{1}{2}ljk$	$\frac{1}{3}ljk$	$\frac{1}{6}lj(k_1+2k_2)$	$\frac{1}{6}ljk(1+\alpha)$	$\frac{1}{3}ljk$	$\frac{5}{12}ljk$	$\frac{1}{4}ljk$
3		$\frac{1}{2}ljk$	$\frac{1}{6}ljk$	$\frac{1}{6}lj(2k_1+k_2)$	$\frac{1}{6}ljk(1+\beta)$	$\frac{1}{3}ljk$	$\frac{1}{4}ljk$	$\frac{1}{12}ljk$
4		$\frac{1}{2}lk(j_1+j_2)$	$\frac{1}{6}lk(j_1+2j_2)$	$\frac{1}{6}lj(2k_1+k_2)+j_2(k_1+2k_2)$	$\frac{1}{6}lk[j_1(1+\beta)+j_2(1+\alpha)]$	$\frac{1}{3}l(j_1+j_2)k$	$\frac{1}{12}l(3j_1+5j_2)k$	$\frac{1}{12}l(j_1+3j_2)k$
5		$\frac{1}{2}ljk$	$\frac{1}{6}ljk(1+\gamma)$	$\frac{1}{6}lj[k_1(1+\alpha)+k_2(1+\gamma)]$	$\frac{ljk}{6\beta\gamma}(2\gamma-\gamma^2-\alpha^2)$ $\gamma \geq \alpha$	$\frac{1}{3}l(1+\gamma\delta)jk$	$\frac{1}{12}l(5-\delta+\delta^2)jk$	$\frac{1}{12}l(1+\gamma+\gamma^2)jk$
6		$\frac{2}{3}ljk$	$\frac{1}{3}ljk$	$\frac{1}{3}lj(k_1+k_2)$	$\frac{1}{3}ljk(1+\alpha,\beta)$	$\frac{8}{15}ljk$	$\frac{7}{15}ljk$	$\frac{1}{5}ljk$
7		$\frac{2}{3}ljk$	$\frac{1}{4}ljk$	$\frac{1}{12}lj(5k_1+3k_2)$	$\frac{1}{12}ljk(5-\alpha-\alpha^2)$	$\frac{7}{15}ljk$	$\frac{11}{30}ljk$	$\frac{2}{15}ljk$
8		$\frac{2}{3}ljk$	$\frac{5}{12}ljk$	$\frac{1}{12}lj(3k_1+5k_2)$	$\frac{1}{12}ljk(5-\beta-\beta^2)$	$\frac{7}{15}ljk$	$\frac{8}{15}ljk$	$\frac{3}{10}ljk$
9		$\frac{1}{3}ljk$	$\frac{1}{4}ljk$	$\frac{1}{12}lj(k_1+3k_2)$	$\frac{1}{12}ljk(1+\alpha+\alpha^2)$	$\frac{1}{5}ljk$	$\frac{3}{10}ljk$	$\frac{1}{5}ljk$
10		$\frac{1}{3}ljk$	$\frac{1}{12}ljk$	$\frac{1}{12}lj(3k_1+k_2)$	$\frac{1}{12}ljk(1+\beta+\beta^2)$	$\frac{1}{5}ljk$	$\frac{2}{15}ljk$	$\frac{1}{30}ljk$

		Yük terimleri		Ankastrelik uç momentleri		
			L	R	$M_A$	$M_B$
1		$\frac{q\ell^2}{4}$	$\frac{q\ell^2}{4}$	$-\frac{q\ell^2}{12}$	$-\frac{q\ell^2}{12}$	$-\frac{q\ell^2}{8}$
2		$\frac{\ell^2}{60}(8q_1 + 7q_2)$	$\frac{\ell^2}{60}(7q_1 + 8q_2)$	$-\frac{\ell^2}{60}(3q_1 + 2q_2)$	$-\frac{\ell^2}{60}(2q_1 + 3q_2)$	$-\frac{\ell^2}{120}(8q_1 + 7q_2)$
3		$\frac{qc^2}{4}(2-y)^2$	$\frac{qc^2}{4}(2-y)^2$	$-\frac{qc^2}{3}(1.5-2y+0.75y^2)$	$-\frac{qc^2}{3}y(1-0.75y)$	$-\frac{qc^2}{8}(2-y)^2$
4		$\frac{qc^2}{4}(2-y)^2$	$\frac{qc^2}{4}(2-y)^2$	$-\frac{qc^2}{3}(1.5-2y+0.75y^2)$	$-\frac{qc^2}{3}y(1-0.75y)$	$-\frac{qc^2}{8}(2-y)^2$
5		$qba(1-\beta^2-0.25\gamma^2)$	$qac(1-\alpha^2-0.25\gamma^2)$	$-qc\left[\alpha\beta^2 + \frac{\gamma^2}{12}(\beta-3\theta)\right]$	$-qc\left[b\alpha^2 + \frac{\gamma^2}{12}(1-3\alpha)\right]$	$-\frac{qbc}{2}(1-\beta^2-0.25\gamma^2)$
6		$qac[3\alpha(1-\alpha)-0.25\gamma^2]$	$qbc[3\alpha(1-\alpha)-0.25\gamma^2]$	$-qac\left[\alpha(1-\alpha) - \frac{\gamma^2}{12}\right]$	$-qbc\left[\alpha(1-\alpha) - \frac{\gamma^2}{12}\right]$	$-\frac{qac}{2}\left[3\alpha(1-\alpha) - \frac{\gamma^2}{4}\right]$
7		$\frac{q\ell^2}{60}(1+\beta)(7-3\beta^2)$	$\frac{q\ell^2}{60}(1+\alpha)(7-3\alpha^2)$	$-\frac{q\ell^2}{30}[1+\beta+\beta^2-1.5\beta^3]$	$-\frac{q\ell^2}{30}[1+\alpha+\alpha^2-1.5\alpha^3]$	$-\frac{q\ell^2}{120}(1+\beta)(7-3\beta^2)$
8		$\frac{qc^2}{3}(2-2.25\gamma+0.6\gamma^2)$	$\frac{qc^2}{3}(1-0.6\gamma^2)$	$-\frac{qc^2}{3}(1-1.5\gamma+0.6\gamma^2)$	$-\frac{qc^2}{4}y(1-0.8y)$	$-\frac{qc^2}{6}(2-2.25\gamma+0.6\gamma^2)$
$\alpha = \frac{a}{\ell}$ $\beta = \frac{b}{\ell}$ $\gamma = \frac{c}{\ell}$		Tablodaki pozitif yönler				
		Cross ve Açı yöntemlerinde kabul edilen pozitif yönler				

		Yük türleri		Ankastrelik uç momentleri		
			L	R	$M_A$	$M_B$
9		$\frac{qc^2}{3}(1-0.75\beta+0.15\beta^2)$	$\frac{qc^2}{6}(1-0.3\beta^2)$	$-\frac{qc^2}{6}(1-\beta+0.3\beta^2)$	$-\frac{qc^2}{12}\beta(1-0.6\beta)$	$-\frac{qc^2}{6}(1-0.75\beta+0.15\beta^2)$
10		$\frac{qc^2}{4}[1-\alpha^2(2-\alpha)]$	$\frac{qc^2}{4}[1-\alpha^2(2-\alpha)]$	$-\frac{qc^2}{12}[1-\alpha^2(2-\alpha)]$	$-\frac{qc^2}{12}[1-\alpha^2(2-\alpha)]$	$-\frac{qc^2}{8}[1-\alpha^2(2-\alpha)]$
11		$\frac{1}{5}qc^2$	$\frac{1}{5}qc^2$	$-\frac{1}{15}qc^2$	$-\frac{1}{15}qc^2$	$-\frac{1}{10}qc^2$
12		$-M(1-3\beta^2)$	$M(1-3\alpha^2)$	$M\beta(3\alpha-1)$	$-M\alpha(3\beta-1)$	$\frac{M}{2}(1-3\beta^2)$
13		$\frac{Pab}{c}(1+\beta)$	$\frac{Pab}{c}(1+\alpha)$	$-P\alpha\beta^2$	$-P\beta\alpha^2$	$-\frac{Pab}{2c}(1+\beta)$
14		$2Pb(1-\beta^2-0.75\beta^2)$	$2Pa(1-\alpha^2-0.75\alpha^2)$	$-P(2\alpha\beta^2+\frac{a\beta^2}{2}-\beta\alpha^2)$	$-P(2\beta\alpha^2+\frac{b\alpha^2}{2}-\alpha\beta^2)$	$-Pb(1-\beta^2-0.75\beta^2)$
15		$EA\alpha_r t^0$	$EA\alpha_r t^0$	$EA\alpha_r t^0$	$EA\alpha_r t^0$	$EA\alpha_r t^0$
16		$3EI\alpha_r \frac{\Delta t^0}{h}$	$3EI\alpha_r \frac{\Delta t^0}{h}$	$-EI\alpha_r \frac{\Delta t^0}{h}$	$-EI\alpha_r \frac{\Delta t^0}{h}$	$-\frac{3}{2}EI\alpha_r \frac{\Delta t^0}{h}$
17		$\frac{6EI}{c^2}(\Delta B-\Delta A)$	$-\frac{6EI}{c^2}(\Delta B-\Delta A)$	$\frac{6EI}{c^2}(\Delta A-\Delta B)$	$-\frac{6EI}{c^2}(\Delta A-\Delta B)$	$\frac{3EI}{c^2}(\Delta A-\Delta B)$
$\alpha = \frac{a}{c}$ $\beta = \frac{b}{c}$ $\gamma = \frac{c}{c}$		Tablodaki pozitif yönler				
		Cross ve Açı yöntemlerinde kabul edilen pozitif yönler			