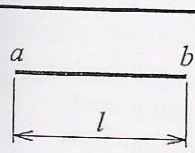
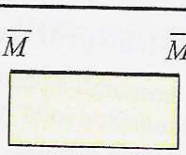
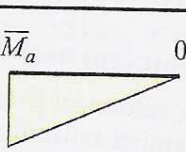
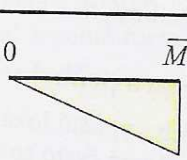
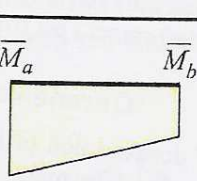
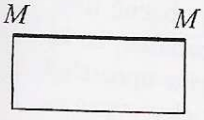
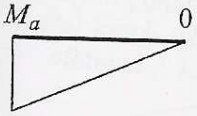
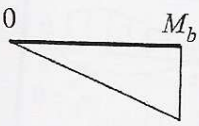
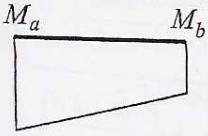
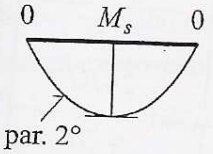
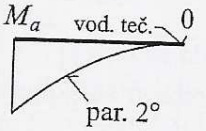
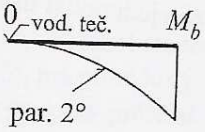
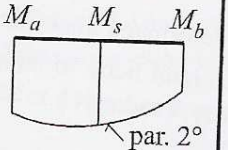
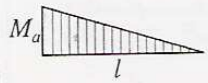
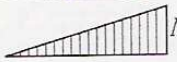
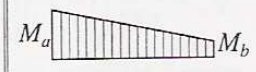
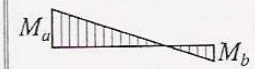
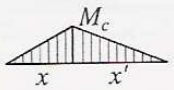
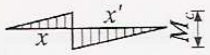
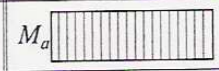
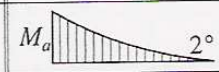
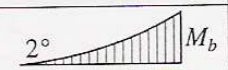
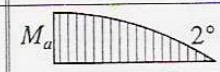
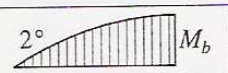
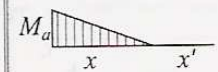
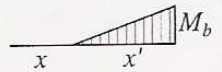
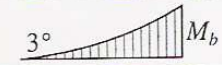
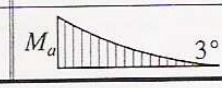
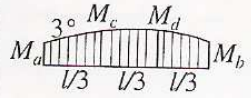
Tabulka 2.2: Vzorce pro výpočet integrálů $\int_0^l M\overline{M}\,\mathrm{d}x$

				
	$M\overline{M}l$	$\frac{1}{2}M\overline{M}_a l$	$\frac{1}{2}M\overline{M}_b l$	$\frac{1}{2}M\left(\overline{M}_a+\overline{M}_b\right)l$
	$\frac{1}{2}M_a\overline{M}l$	$\frac{1}{3}M_a\overline{M}_a l$	$\frac{1}{6}M_a\overline{M}_b l$	$\frac{1}{6}M_a\left(2\overline{M}_a+\overline{M}_b\right)l$
	$\frac{1}{2}M_b\overline{M}l$	$\frac{1}{6}M_b\overline{M}_a l$	$\frac{1}{3}M_b\overline{M}_b l$	$\frac{1}{6}M_b\left(\overline{M}_a+2\overline{M}_b\right)l$
	$\frac{1}{2}\left(M_a+M_b\right)\overline{M}l$	$\frac{1}{6}\left(2M_a+M_b\right)\overline{M}_a l$	$\frac{1}{6}\left(M_a+2M_b\right)\overline{M}_b l$	$\frac{1}{6}\left[\left(2M_a+M_b\right)\overline{M}_a+\left(M_a+2M_b\right)\overline{M}_b\right]l$
	$\frac{2}{3}M_s\overline{M}l$	$\frac{1}{3}M_s\overline{M}_a l$	$\frac{1}{3}M_s\overline{M}_b l$	$\frac{1}{3}M_s\left(\overline{M}_a+\overline{M}_b\right)l$
	$\frac{1}{3}M_a\overline{M}l$	$\frac{1}{4}M_a\overline{M}_a l$	$\frac{1}{12}M_a\overline{M}_b l$	$\frac{1}{12}M_a\left(3\overline{M}_a+\overline{M}_b\right)l$
	$\frac{1}{3}M_b\overline{M}l$	$\frac{1}{12}M_b\overline{M}_a l$	$\frac{1}{4}M_b\overline{M}_b l$	$\frac{1}{12}M_b\left(\overline{M}_a+3\overline{M}_b\right)l$
	$\frac{1}{6}\left(M_a+4M_s+M_b\right)\overline{M}l$	$\frac{1}{6}\left(M_a+2M_s\right)\overline{M}_a l$	$\frac{1}{6}\left(2M_s+M_b\right)\overline{M}_b l$	$\frac{1}{6}\left[\left(M_a+2M_s\right)\overline{M}_a+\left(2M_s+M_b\right)\overline{M}_b\right]l$

Tabulka 14.3. Hodnoty integrálů $\int M\overline{M}\mathrm{d}x$ u prutů konstantního průřezu

Zatěž. případ	M \ $\overline{M}$	$\overline{M}_a$	$\overline{M}_a$	$\overline{M}_a$ $\overline{M}_b$
1		$\frac{1}{2}M_a\overline{M}_a l$	$\frac{1}{3}\overline{M}_a M_a l$	$\frac{1}{6}M_a(2\overline{M}_a+\overline{M}_b)l$
2		$\frac{1}{2}\overline{M}_a M_b l$	$\frac{1}{6}\overline{M}_a M_b l$	$\frac{1}{6}M_b(\overline{M}_a+2\overline{M}_b)l$
3		$\frac{1}{2}(M_a+M_b)\overline{M}_a l$	$\frac{1}{6}(2M_a+M_b)\overline{M}_a l$	$\frac{1}{6}\left[\overline{M}_a(2M_a+M_b)+\right.$ $\left.+\overline{M}_b(M_a+2M_b)\right]l$
4		$\frac{1}{2}(M_a-M_b)\overline{M}_a l$	$\frac{1}{6}(2M_a-M_b)\overline{M}_a l$	$\frac{1}{6}\left[\overline{M}_a(2M_a-M_b)+\right.$ $\left.+\overline{M}_b(M_a-2M_b)\right]l$
5		$\frac{1}{2}\overline{M}_a M_c l$	$\frac{1}{6}\overline{M}_a M_c(l+x')$	$\frac{1}{6}\left[\overline{M}_a(l+x')+\right.$ $\left.+\overline{M}_b(l+x)\right]M_c$
6		$\frac{1}{2}\overline{M}_a M_c(x-x')$	$\frac{1}{6l}\overline{M}_a M_c\left(l^2-3x'^2\right)$	$\frac{M_c}{6l}\left[\overline{M}_b\left(3x^2-l^2\right)-\right.$ $\left.-\overline{M}_a\left(3x'^2-l^2\right)\right]$
7		$M_a\overline{M}_a l$	$\frac{1}{2}\overline{M}_a M_a l$	$\frac{1}{2}(\overline{M}_a+\overline{M}_b)M_a l$
8		$\frac{2}{3}\overline{M}_a M_c l$	$\frac{1}{3}\overline{M}_a M_c l$	$\frac{1}{3}M_c(\overline{M}_a+\overline{M}_b)l$
9		$\frac{1}{3}\overline{M}_a M_a l$	$\frac{1}{4}\overline{M}_a M_a l$	$\frac{1}{12}M_a(3\overline{M}_a+\overline{M}_b)l$
10		$\frac{1}{3}\overline{M}_a M_b l$	$\frac{1}{12}\overline{M}_a M_b l$	$\frac{1}{12}M_b(\overline{M}_a+3\overline{M}_b)l$
11		$\frac{2}{3}\overline{M}_a M_a l$	$\frac{5}{12}\overline{M}_a M_a l$	$\frac{1}{12}M_a(5\overline{M}_a+3\overline{M}_b)l$
12		$\frac{2}{3}\overline{M}_a M_b l$	$\frac{1}{4}\overline{M}_a M_b l$	$\frac{1}{12}M_b(3\overline{M}_a+5\overline{M}_b)l$
13		$\frac{1}{2}\overline{M}_a M_a x$	$\frac{1}{6}\overline{M}_a M_a\frac{x}{l}(3l-x)$	$\frac{M_a}{6}\cdot\frac{x}{l}\left[\overline{M}_a(3l-x)+\right.$ $\left.+\overline{M}_b x\right]$
14		$\frac{1}{2}\overline{M}_a M_b x'$	$\frac{1}{6}\overline{M}_a M_b\frac{x'^2}{l}$	$\frac{M_b}{6}\cdot\frac{x'}{l}\left[\overline{M}_b(3l-x')+\right.$ $\left.+\overline{M}_a x'\right]$
15		$\frac{1}{4}\overline{M}_a M_b l$	$\frac{1}{20}\overline{M}_a M_b l$	$\frac{M_b}{20}(\overline{M}_a+4\overline{M}_b)l$
16		$\frac{1}{4}\overline{M}_a M_a l$	$\frac{1}{5}\overline{M}_a M_a l$	$\frac{M_a}{20}(4\overline{M}_a+\overline{M}_b)l$

Tabulka 14.3. Hodnoty integrálů $\int M\overline{M}\mathrm{d}x$ u prutů konstantního průřezu (pokračování)

Zatěž. případ	M \ $\overline{M}$	$\overline{M}_a$ $\overline{M}_a$	$\overline{M}_a$	$\overline{M}_a$ $\overline{M}_b$
17		$\frac{\overline{M}_a}{8}(M_a+3M_c+$ $+3M_d+M_b)l$	$\frac{\overline{M}_a}{120}(13M_a+36M_c+$ $+9M_d+2M_b)l$	$\frac{l}{120}\left[\overline{M}_a\cdot\right.$ $\cdot(13M_a+36M_c+$ $+9M_d+2M_b)+\overline{M}_b\cdot$ $\cdot(2M_a+9M_c+$ $\left.+36M_d+13M_b)\right]$
Zatěž. případ	M \ $\overline{M}$	$\overline{M}_c$ u u'	$\overline{M}_c$ 2°	$\overline{M}_a$ 2°
18	M_a l	$\frac{1}{6}\overline{M}_c M_a(l+u')$	$\frac{1}{3}\overline{M}_c M_a l$	$\frac{1}{4}\overline{M}_a M_a l$
19	M_b	$\frac{1}{6}\overline{M}_c M_b(l+u)$	$\frac{1}{3}\overline{M}_c M_b l$	$\frac{1}{12}\overline{M}_a M_b l$
20	M_a M_b	$\frac{\overline{M}_c}{6}\left[M_a(l+u')+\right.$ $\left.+M_b(l+u)\right]$	$\frac{1}{3}\overline{M}_c(M_a+M_b)l$	$\frac{1}{12}\overline{M}_a(3M_a+M_b)l$
21	M_a M_b	$\frac{\overline{M}_c}{6}\left[M_a(l+u')-\right.$ $\left.-M_b(l+u)\right]$	$\frac{1}{3}\overline{M}_c(M_a-M_b)l$	$\frac{1}{12}\overline{M}_a(3M_a-M_b)l$
22	M_c x x'	$\frac{\overline{M}_c M_c l}{6ux'}\cdot$ $\cdot\left[2ux'-(x'-u')^2\right]$ pro $x<u$; $\frac{\overline{M}_c M_c l}{6u'x}\cdot$ $\cdot\left[2u'x-(u'-x')^2\right]$ pro $x>u$	$\frac{\overline{M}_c M_c}{3l}(l^2+xx')$	$\frac{\overline{M}_a M_c}{12l}(3lx'+x^2)$
23	x x' M_c	$\frac{\overline{M}_c M_c}{6}\left(l+u-\frac{3x'^2}{u'}\right)$ pro $x>u$; $\frac{-\overline{M}_c M_c}{6}\left(l+u'-\frac{3x'^2}{u}\right)$ pro $x<u$	$-\frac{\overline{M}_c M_c}{3l}\cdot$ $\cdot\left(l^3-6lx^2+4x^3\right)$	$\frac{\overline{M}_a M_c}{12l^2}\left(l^3-4x'^3\right)$