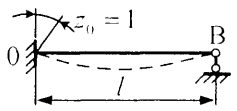
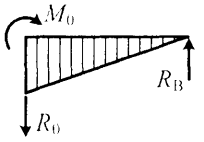
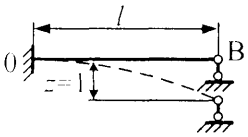
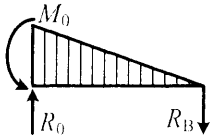
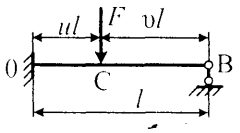
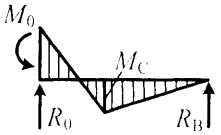
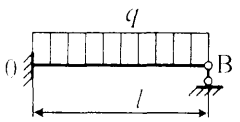
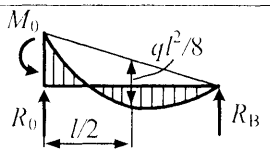
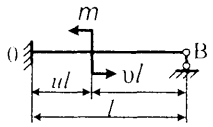
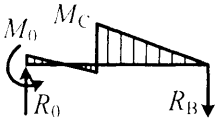
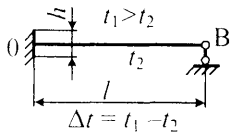
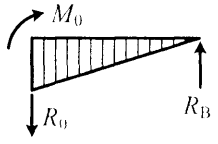
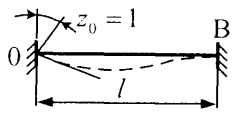
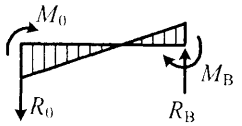
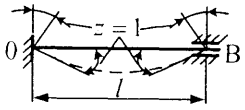
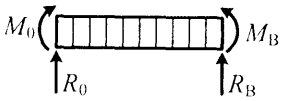
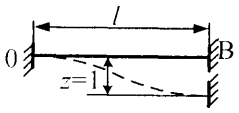
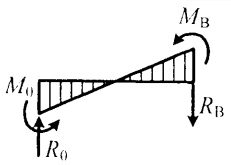
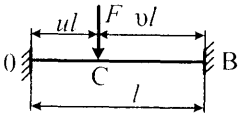
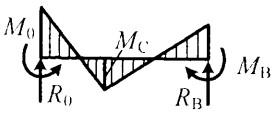
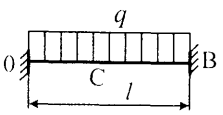
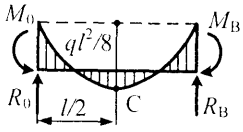
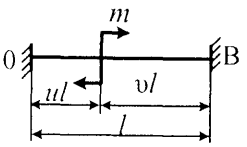
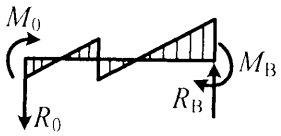
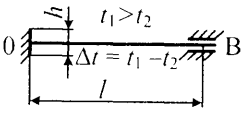
Приложение П11

Таблица реактивных усилий метода перемещений

Таблица П11.1

№ пп.	Схема балки	Эпюры моментов и реакции	Формулы
1	2	3	4
1			$M_0 = 3i$ $R_0 = R_B = 3i/l$ $i = EJ/l$
2			$M_0 = 3i/l$ $R_0 = R_B = 3i/l^2$
3			$M_0 = 0,5Fl \cdot \upsilon(1-\upsilon^2)$ $M_C = 0,5Flu^2\upsilon(3-u)$ $R_0 = 0,5F\upsilon(3-\upsilon^2)$ $R_B = 0,5Fu^2(3-u)$
4			$M_0 = ql^2/8$ $R_0 = 5ql/8$ $R_B = 3ql/8$
5			$M_0 = 0,5m(1-3\upsilon^2)$ $M_C = 0,5m \cdot 3\upsilon(1-\upsilon^2)$ $R_0 = R_B = \frac{3m}{2l}(1-\upsilon^2)$ M_0 меняет знак при $\upsilon^2 > 1/3$
6			$M_0 = \frac{3EJ\alpha\Delta t}{2h}$ $R_0 = R_B = \frac{3EJ\alpha\Delta t}{2lh}$

Продолжение табл. П11.1

1	2	3	4
7			$M_0 = 4i$ $M_B = 2i$ $R_0 = R_B = 6i/l$
8			$M_0 = M_B = 2i$ $R_0 = R_B = 0$
9			$M_0 = M_B = 6i/l$ $R_0 = R_B = 12i/l^2$
10			$M_0 = Fu\upsilon^2 l$ $M_B = F\upsilon u^2 l$ $M_C = 2Fu^2\upsilon^2 l$ $R_0 = F\upsilon^2(1+2u)$ $R_B = Fu^2(1+2\upsilon)$
11			$M_0 = ql^2/12$ $M_C = ql^2/24$ $R_0 = R_B = 0,5ql$
12			$M_0 = \upsilon m(3u-1)$ $M_B = um(3\upsilon-1)$ $R_0 = R_B = \dfrac{6u\upsilon m}{l}$ M_0 при $u < 1/3$ и M_B при $\upsilon < 1/3$ меняют знак
13			$M_0 = M_B = \dfrac{EJ\alpha\Delta t}{h}$ $R_0 = R_B = 0$