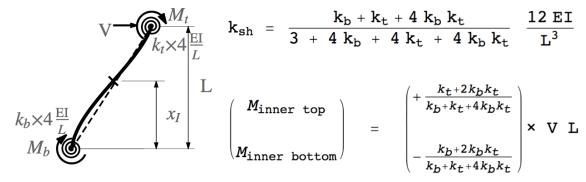
First iteration formulas



Note: In the first iteration, we assume: $M_b = M_t = 0$

Note: Special case of first floor with fixed or hinge support gives simpler expressions as follows:

$k_b \to \infty$ (fixed support at bottom)	$k_b = 0$ (hinge support at bottom
$k_{sh} = \frac{{}^{1+4} k_t}{{}^{4+4} k_t} \times \frac{{}^{12} EI}{{L}^3}$	$k_{sh} = \frac{k_t}{3+4 k_t} \times \frac{12 EI}{L^3}$
$\left(\begin{array}{c} M_{innertop} \\ M_{bottominner} \end{array} \right) = \left(\begin{array}{c} \frac{2k_t}{1+4k_t} \\ \frac{1+2k_t}{1+4k_t} \end{array} \right) \times VL$	$\begin{pmatrix} \mathbf{M}_{innertop} \\ \mathbf{M}_{bottominner} \end{pmatrix} = \begin{pmatrix} 1 \\ 0 \end{pmatrix} \times VL$

Second iteration formulas