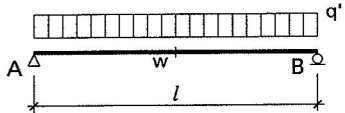
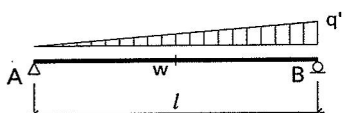
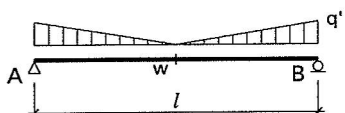
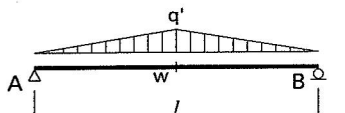
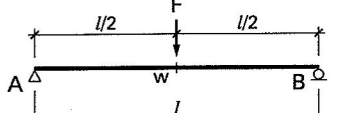
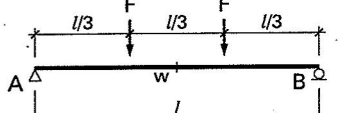
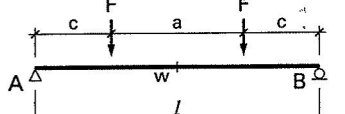
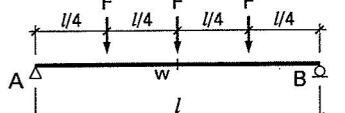
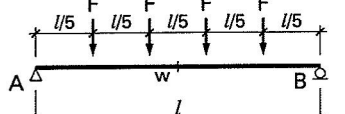
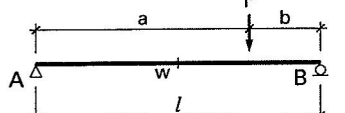


Annexes

Poutres simples

Système $E \cdot I = \text{constante}$	Réactions d'appuis en kN q' en kN/m, F en kN l en m	Moments de flexion M en kNm q' en kN/m, F en kN l en m	Flèches w en mm q' en N/mm, F en N l en mm E en N/mm ² , I en mm ⁴
	$A = B = \frac{q' \cdot l}{2}$	$M_{\max} = \frac{q' \cdot l^2}{8}$	$w = \frac{5}{384} \cdot \frac{q' \cdot l^4}{E \cdot I}$
	$A = \frac{1}{6} \cdot q' \cdot l$ $B = \frac{1}{3} \cdot q' \cdot l$	$M_{\max} = 0,064 \cdot q' \cdot l^2$	$w = \frac{5}{768} \cdot \frac{q' \cdot l^4}{E \cdot I}$
	$A = B = \frac{1}{4} \cdot q' \cdot l$	$M_{\max} = 0,0417 \cdot q' \cdot l^2$	$w = \frac{3}{640} \cdot \frac{q' \cdot l^4}{E \cdot I}$
	$A = B = \frac{1}{4} \cdot q' \cdot l$	$M_{\max} = \frac{1}{12} \cdot q' \cdot l^2$	$w = \frac{1}{120} \cdot \frac{q' \cdot l^4}{E \cdot I}$
	$A = B = \frac{F}{2}$	$M_{\max} = \frac{F \cdot l}{4}$	$w = \frac{1}{48} \cdot \frac{F \cdot l^3}{E \cdot I}$
	$A = B = F$	$M_{\max} = \frac{1}{3} \cdot F \cdot l$	$w = \frac{23}{648} \cdot \frac{F \cdot l^3}{E \cdot I}$
	$A = B = F$	$M_{\max} = F \cdot c$	$w = \frac{1}{24} \cdot \frac{F \cdot c}{E \cdot I} \cdot (3 \cdot l^2 - 4 \cdot c^2)$
	$A = B = 1,5 \cdot F$	$M_{\max} = 0,500 \cdot F \cdot l$	$w = \frac{19}{384} \cdot \frac{F \cdot l^3}{E \cdot I}$
	$A = B = 2,0 \cdot F$	$M_{\max} = 0,600 \cdot F \cdot l$	$w = \frac{63}{1000} \cdot \frac{F \cdot l^3}{E \cdot I}$
	$A = \frac{F \cdot b}{l}$ $B = \frac{F \cdot a}{l}$	$M_{\max} = \frac{F \cdot a \cdot b}{l}$	$w = \frac{1}{48} \cdot \frac{F \cdot b \cdot (3 \cdot l^2 - 4 \cdot b^2)}{E \cdot I}$