## **FIXED-END MOMENTS:**

General Cases		
$All\ F.E.M.\ values = (Formula\ x\ Total\ Load\ W\ x\ Span\ l)$		
$M_{AB}^{F}$	Load Case	$M_{\it BA}^{\it F}$
$-\alpha(1-\alpha)^2$	$M_{AB}^F$ $M_{BA}^F$	$\alpha^2(1-\alpha)$
$-\frac{\alpha(6-8\alpha+3\alpha^2)}{12}$	$M_{AB}^F$ $M_{BA}^F$	$\frac{\alpha^2(4-3\alpha)}{12}$
$-\frac{(1+2\alpha-2\alpha^2)}{12}$	$M_{AB}^{F}$ $M_{AB}^{F}$	$\frac{(1+2\alpha-2\alpha^2)}{12}$
$-\frac{\alpha(3-2\alpha)}{12}$	$M_{AB}^{F}$ $M$ total $M_{BA}^{F}$	$\frac{\alpha(3-2\alpha)}{12}$
$-\frac{\alpha(10-10\alpha+3\alpha^2)}{30}$	$M_{AB}^{F}$ $M$ total $M_{BA}^{F}$	$\frac{\alpha^2(5-3\alpha)}{30}$
$-\frac{\alpha(10-15\alpha+6\alpha^2)}{15}$	$M_{AB}^F$ $M$ total $M_{BA}^F$	$\frac{\alpha^2(5-4\alpha)}{10}$
$-(1-\alpha)(1-3\alpha)$	$M_{AB}^{F}$ $M_{BA}^{F}$	$\alpha(2-3\alpha)$
$-\frac{\alpha(1-\alpha)}{2}$	$M_{AB}^{F}$ $M/2$ $M/2$ $M/2$ $M_{BA}^{F}$	$\frac{\alpha(1-\alpha)}{2}$