Γ	$\frac{AEY}{L}$	0	0	$-\frac{AEY}{L}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0 ]
	0 .	$\frac{12EYIN}{L^3}$	$\frac{6EYIN}{L^2}$	0	$-\frac{12EYIN}{L^3}$	$\frac{6EYIN}{L^2}$	0	0	0	0	0	0	0	0	0	0	0	0
$\mathbf{K}_{tot} =$	0	$\frac{6EYIN}{L^2}$	$\frac{4EYIN}{L}$	0	$-\frac{6EYIN}{L^2}$	$\frac{2EYIN}{I}$	0	0	0	0	0	0	0	0	0	0	0	0
	$-\frac{AEY}{L}$	0	$\frac{AEY}{L}$ +	$\frac{8AEY}{5\sqrt{5}L} + \frac{12EYIN}{L^3} + \frac{96EYIN}{25\sqrt{5}L^3}$	$\frac{192EYIN}{25\sqrt{5}L^3} - \frac{4AEY}{5\sqrt{5}L}$	$\frac{6EYIN}{L^2}$	$\frac{24EYIN}{5\sqrt{5}I^2}$	$-\frac{12EYIN}{L^3}$	0	0	$\frac{6EYIN}{L^2}$	0	0	0	0	$-\frac{8AEY}{5\sqrt{5}I} - \frac{96EYIN}{25\sqrt{5}I^3}$	$\frac{4AEY}{5\sqrt{5}I} - \frac{192EYIN}{25\sqrt{5}I^3}$	$\frac{24EYIN}{5.\sqrt{5}I^2}$
	0 -	$-\frac{12EYIN}{I_3}$	$-rac{6EYIN}{L^2}$	$\frac{192EYIN}{}$ $\frac{4AEY}{}$	$\frac{EY}{L} + \frac{2AEY}{5\sqrt{5}L} + \frac{12EYIN}{L^3} + \frac{384EYIN}{25\sqrt{5}L^3}$	$-\frac{6EYIN}{L^2}$ $8EYIN$	$\frac{48EYIN}{5\sqrt{5}I^2}$	0	$-\frac{AEY}{I}$	0	0	0	0	0	0	$rac{5\sqrt{5}L}{5\sqrt{5}L} - rac{25\sqrt{5}L^3}{192EYIN} = rac{25\sqrt{5}L^3}{25\sqrt{5}L^3}$	$\begin{array}{c} \frac{4AEY}{5\sqrt{5}L} - \frac{192EYIN}{25\sqrt{5}L^3} \\ -\frac{2AEY}{5\sqrt{5}L} - \frac{384EYIN}{25\sqrt{5}L^3} \end{array}$	$\frac{5\sqrt{5}L^2}{48EYIN} \over 5\sqrt{5}L^2$
	0	$\frac{6EYIN}{12}$	2EYIN	$25\sqrt{5}L^3 \underbrace{6EYIN}_{5} 5\sqrt{5}L $	$-\frac{6EYIN}{25\sqrt{5}L^3}$	8EYIN	$5\sqrt{5}L^2$	$-\frac{6EYIN}{12}$	0	0	2EYIN	0	0	0	0	$0 \qquad 0 \qquad 0$	$0 \qquad 0 \qquad 0 \qquad 0$	0
	0	$0^{L^2}$	$\overset{L}{0}$	$\frac{24EYIN}{7}$	$\frac{48EYIN}{5\sqrt{5}}$	$\overset{L}{0}$	$\frac{8EYIN}{\sqrt{5}}$	0	0	0	$\overset{L}{0}$	0	0	0	0	$-rac{24EYIN}{5\sqrt{5}L^2}$	$-rac{48EYIN}{5\sqrt{5}L^2}$	$\frac{4EYIN}{\sqrt{z}}$
	0	0	0	$-rac{5\sqrt{5}L^2}{12EYIN}$	0	$-\frac{6EYIN}{L^2}$	$0^{\sqrt{5}L}$	$\frac{AEY}{L} + \frac{12EYIN}{L^3} + Ke$	m = 0	0	$-\frac{6EYIN}{L^2}$	0	$-\frac{AEY}{t}$	0	0	0	0	$ \begin{array}{c} \sqrt{5}L\\0\end{array} $
	0	0	0	0	$-\frac{AEY}{I}$	0	0	0	$\frac{AEY}{I}$	0	0	0	$0^L$	0	0	0	0	0
	0	0	0	0	0	0	0	0	$\overset{L}{0}$	$\frac{12EYIN}{I.3}$	0	$\frac{6EYIN}{L^2}$	0	$-\frac{12EYIN}{I.3}$	$\frac{6EYIN}{I^2}$	0	0	0
	0	0	0	$\frac{6EYIN}{L^2}$	0	$\frac{2EYIN}{L}$	0	$-\frac{6EYIN}{L^2}$	0	0	$\frac{4EYIN}{L}$	0	0	0	0	0	0	0
	0	0	0	0	0	$\tilde{0}$	0	0	0	$\frac{6EYIN}{L^2}$	$\tilde{0}$	$\frac{4EYIN}{L}$	0	$-\frac{6EYIN}{L^2}$	$\frac{2EYIN}{L}$	0	0	0
	0	0	0	0	0	0	0	$-\frac{AEY}{L}$	0	0	0	U	$\frac{AEY}{L} + \frac{96EYIN}{L^3}$	U	$-\frac{24EYIN}{L^2}$	$-\frac{96EYIN}{L^3}$	0	$-\frac{24EYIN}{L^2}$
	0	0	0	0	0	0	0	0	0 -	$-\frac{12EYIN}{L^3}$	0	$-\frac{6EYIN}{L^2}$	0	$\frac{2AEY}{L} + \frac{12EYII}{L^3}$	$= -\frac{1}{L^2}$	0	$-\frac{2AEY}{L}$	0
	0	0	0	0	0	0	0	0	0	$\frac{6EYIN}{L^2}$	0	$\frac{2EYIN}{L}$	$-\frac{24EYIN}{L^2}$	$-\frac{6EYIN}{L^2}$	$\frac{12EYIN}{L}$	$\frac{24EYIN}{L^2}$	0	$\frac{4EYIN}{L}$
	0	0	0	$-\frac{8AEY}{5\sqrt{5}L} - \frac{96EYIN}{25\sqrt{5}L^3}$	$\frac{4AEY}{5\sqrt{5}L} - \frac{192EYIN}{25\sqrt{5}L^3}$	0	$-\frac{24EYIN}{5\sqrt{5}L^2}$	0	0	0	0	$\ddot{0}$	$-\frac{96 EYIN}{L^3}$	$\vec{0}$	$\frac{24EYIN}{L^2}$ 8	$\frac{8AEY}{5\sqrt{5}L} + \frac{96EYIN}{L^3} + \frac{96EYIN}{25\sqrt{5}L^3}$	$\frac{192EYIN}{25\sqrt{5}L^3} - \frac{4AEY}{5\sqrt{5}L}$	$\frac{24EYIN}{L^2} - \frac{24EYIN}{5\sqrt{5}L^2}$
	0	0	0	$\frac{4\tilde{A}\check{E}\check{Y}}{5\sqrt{5}I} - \frac{19\tilde{2}\check{E}\check{Y}\check{I}\check{N}}{25\sqrt{5}I^3}$	$-\frac{2\check{A}\check{E}Y}{5\sqrt{5}I} - \frac{3\check{8}\check{4}\check{E}\check{Y}IN}{25\sqrt{5}I^3}$	0	$-\frac{48EYIN}{5.\sqrt{5}I^{2}}$	0	0	0	0	0	0	$-\frac{2AEY}{L}$	0	$\frac{192EYIN}{25.513} - \frac{4AEY}{5.51}$	$\frac{2AEY}{L} + \frac{2AEY}{5\sqrt{5}L} + \frac{384EYIM}{25\sqrt{5}L^3}$	$\frac{N}{2}$ $-\frac{48EYIN}{5.\sqrt{5}I^2}$
	0	0	0	$\frac{24EYIN}{5\sqrt{5}L^2}$	$\frac{48EYIN}{5\sqrt{5}L^2}$	0	$\frac{4EYIN}{\sqrt{5}L}$	0	0	0	0	0	$-\frac{24EYIN}{L^2}$	0	$\frac{4EYIN}{L}$	$\frac{24EYIN}{L^2} - \frac{24EYIN}{5\sqrt{5}L^2}$	$-\frac{48EYIN}{5\sqrt{5}L^2}$	$\frac{8EYIN}{L} + \frac{8EYIN}{\sqrt{5}L}$