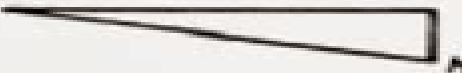


Table 3.1 — Values of K for various bending moment diagrams

Loading	Bending moment diagram	K
		0.125
		$\frac{3 - 4a^2}{48(1-a)}$ if $a = \frac{1}{2}$ $K = \frac{1}{32}$
		0.0625
		$0.125 - \frac{a^2}{6}$
		0.104
		0.102
		$K = 0.104 \left(1 - \frac{\beta}{10}\right)$ $\beta = \frac{M_A + M_B}{M_C}$
		end deflection $= \frac{a(3-a)}{6}$ load at end $K = 0.333$
		$\frac{a(4-a)}{12}$ if $a = l$ $K = 0.25$
		$K = 0.083 \left(1 - \frac{\beta}{4}\right)$ $\beta = \frac{M_A + M_B}{M_C}$
		$\frac{1}{80} \frac{(5-4a^2)^2}{3-4a^2}$

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laboratory course this experiment culminates the laboratory techniques that you have learned this semester and requires you to put the various pieces of information together to identify an unknown organic molecule

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web ms the spectrum for the unknown shows the molecular ion at 135 99 m/z the base peak is at 56 98 m/z which is the peak identified to be a butane chain of carbons the m/z peak is at 138 99 m/z and is roughly the same size as the m/z peak indicating the presence of bromine in this compound

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