

TABLE I: Fixed-fixed beam analysis

Method	Cubic coeff. ( $\mu N/nm^3$ )	Young's modulus (GPa)
$ax^3 + bx^2 + cx + d$	$1.02 \times 10^{-7}$	79
$ax^3 + cx + d$	$1.31 \times 10^{-7}$	103
Literature (Guo, Lal 2003)	N/A	$195 \pm 9$