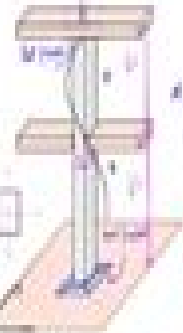
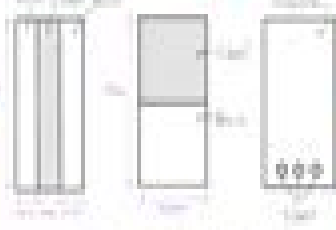
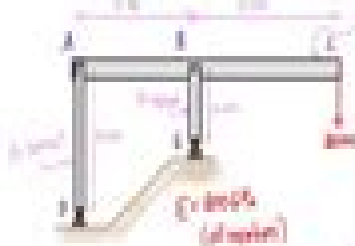
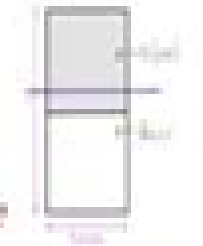
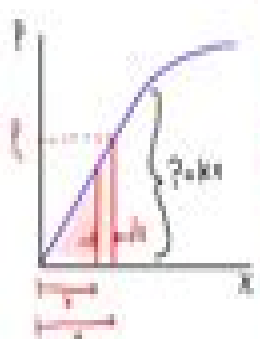
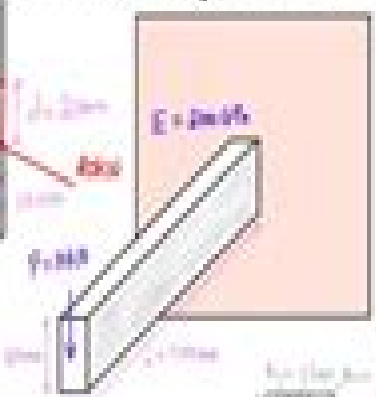
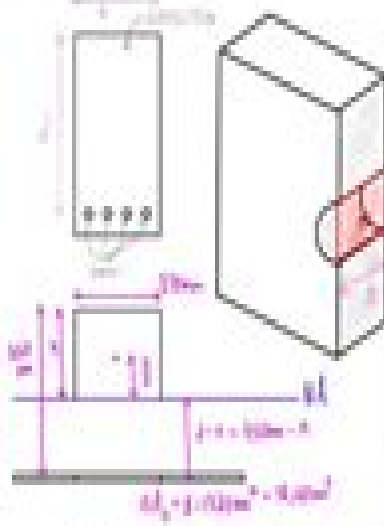


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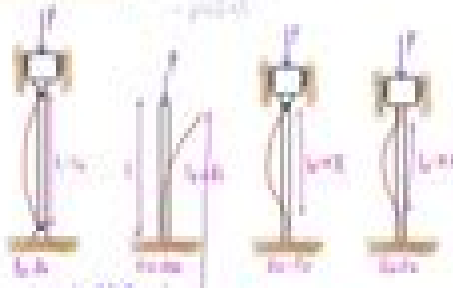


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$$k = \frac{P}{\Delta} = \frac{2000 \text{ N/mm}}{1000 \text{ mm} - 900 \text{ mm}} = 10 \text{ N/mm}^2$$

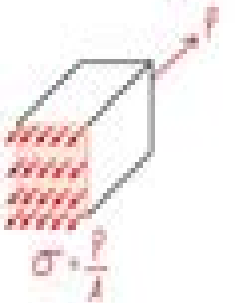
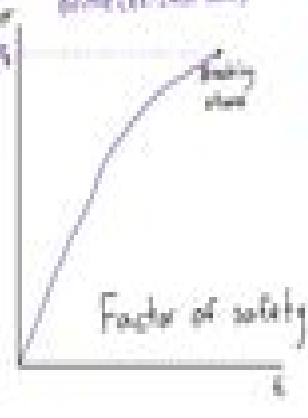
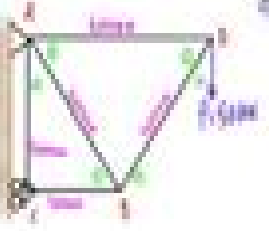
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$$k = \frac{P}{\Delta} = \frac{2000 \text{ N/mm}}{1000 \text{ mm} - 900 \text{ mm}} = 10 \text{ N/mm}^2$$



Member	F (kN)	L (m)	A (cm <sup>2</sup> )	E (GPa)	$\frac{FL}{EA}$
AD	50,000	0.4	100 cm <sup>2</sup>	200,000	1.125
AB	20,000	0.3	100 cm <sup>2</sup>	200,000	0.300
BC	20,000	0.3	100 cm <sup>2</sup>	200,000	0.300
BD	0	0.3	100 cm <sup>2</sup>	200,000	0
DC	50,000	0.3	100 cm <sup>2</sup>	200,000	0.750

$\Sigma = 24, 80$



Factor of safety =  $FS = \frac{\text{ultimate load}}{\text{allowable load}}$

$FS = \frac{\text{ultimate stress}}{\text{allowable stress}}$

# Mechanics Of Engineering Materials

**J Spring**



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In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Mechanics Of Engineering Materials** a literary masterpiece penned by a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of people who partake in its reading experience.

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