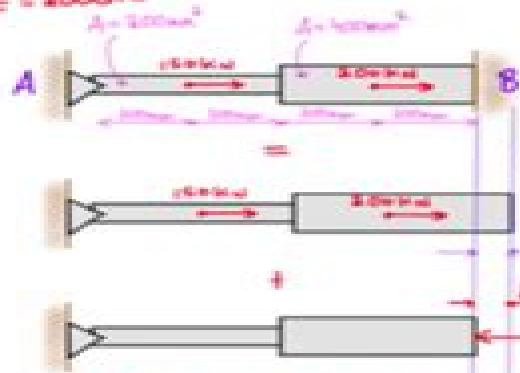


13. Find the reactions of a statically indeterminate member with varying cross section

$$E = 200 \text{ GPa}$$



$$\sum F_A = R_A + R_B + 350 \text{ kN} = 0$$

$$\delta = \sum \frac{P_i L_i}{A_i E} = 0 + \frac{2000 \cdot 200}{200000 \cdot 200} + \frac{2000 \cdot 200}{200000 \cdot 400} + \frac{350000 \cdot 200}{200000 \cdot 800}$$

$$= 0 + 0.25 \text{ mm} + 0.5 \text{ mm} + 0.875 \text{ mm}$$

$$\delta = 1.625 \text{ mm}$$

$$\delta = \delta_B = 1.625 \text{ mm} = \sum \frac{P_i L_i}{A_i E}$$

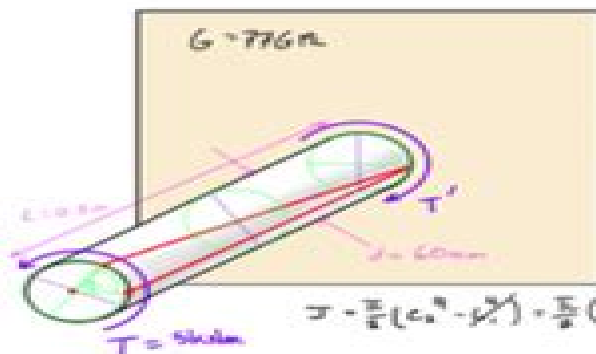
$$1.625 = \frac{R_B \cdot 200}{200000 \cdot 200} + \frac{R_B \cdot 200}{200000 \cdot 400} \rightarrow 400(1.625) \text{ kN} = R_B + 2 R_B$$

$$\frac{400(1.625)}{3} = R_B = 216.67 \text{ kN}$$

$$R_A = 133.33 \text{ kN}$$

Torsion

14. Torques and angle of twist



Angle of twist = $\phi = \frac{T L}{J G} = \sum \frac{T_i L_i}{J_i G_i}$

Internal torque (kNm) → Length (m)

cross section's polar moment of inertia (m⁴) → Modulus of Rigidity (GPa)

$$J = \frac{\pi}{32} (d_o^4 - d_i^4) = \frac{\pi}{32} (0.03 \text{ m})^4 = 1.272 \times 10^{-6} \text{ m}^4$$



$$\phi = \frac{5 \text{ kNm} \cdot 0.5 \text{ m}}{1.272 \times 10^{-6} \text{ m}^4 \cdot 77.6 \text{ GPa}} = \frac{5 \cdot 10^3 \cdot 0.5}{1.272 \cdot 10^{-6} \cdot 77.6} = \frac{5 \cdot 0.5}{1.272 \cdot 77.6} = 0.0255 \text{ rad} = \phi$$

$$\phi = 0.0255 \text{ rad} \left(\frac{180}{\pi \text{ rad}} \right) = 1.46^\circ$$

Elements Of Mechanics Of Materials

Charles Edwin Houghton



Elements Of Mechanics Of Materials:

Elements of Mechanics of Materials Gerner A. Olsen, 1962 **Elements of Mechanics of Materials. Second Edition.**
[With Illustrations.]. Gerner Atkander OLSEN, 1966 *The Elements of Mechanics of Materials* Charles Edwin
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where the course is preceded by college courses in mathematics through integral calculus mechanics and physics The
extreme mathematical treatment of the subject has been avoided but where the use of higher mathematics leads to clearness
they have been freely used As it is intended as a text book the general cases are discussed fully leaving the student to derive
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in les cigares du pharaon the detectives did not have a name yet but instead were referred to as x33 and x33bis x33 and x33a in english several other characters make their first appearance in this album rastapopoulos allan thompson and olivier da figureira

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avec 250 millions d exemplaires vendus les aventures de tintin font partie des bandes dessinées européennes les plus célèbres et plus populaires du xx^e siècle 1 tintin au pays des soviets 01 1930 2 tintin au congo 01 1931 3 tintin en Amérique 01 1932 4 les cigares du pharaon 01 1934 5 le lotus bleu 01 1936 6

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may 24 2023 tintin reporter les cigares du pharaon sera sans doute un jeu pensé pour le grand public et les fans de la bd mais il laisse entrevoir pour le moment une adaptation fidèle et qui tient la route en espérant que l'entièreté du périple sera aussi convenable sortie prévue cette année 2023 sur pc ps4 ps5 xbox one xbox series et

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les aventures de tintin reporter en orient les cigares du pharaon par hergé Éditions casterman paris tournai 0 demain mon cher milou nous serons À port saïd où nous ferons escale et puis encore une escale bombay puis une à colombo dans l'île de ceylan

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résumé dans les cigares du pharaon 1934 tintin se trouve impliqué par hasard et malgré lui dans un trafic de stupéfiants qui va l'entraîner jusqu'en Inde entre temps il aura rencontré Dupond et Dupont deux policiers balourds dont les rôles vont s'affirmer progressivement caractéristiques voir tout date de parution mai 1993 éditeur

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