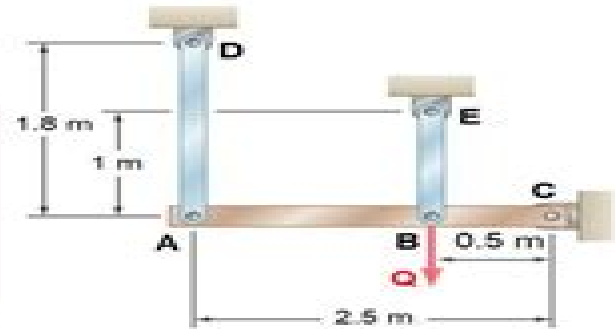


Course: MKT2142 Mechanics of Materials Gr1&2	Date/Time: 05.06.2023 / 09:00	Duration: 80 minutes
Exam Type: Final Exam	Course Instructor: Assoc.Prof. Cüneyt Yılmaz	

Question 1 [20 min, 25 Points] : A rigid bar ABC is supported by two links at its points A and B . AD and BE of uniform $30 \times 6 \text{ mm}^2$ rectangular cross-section and made of a steel material that is assumed to be elastoplastic with $E=200 \text{ GPa}$. The magnitude of the force Q applied at B is 150 kN . Assuming an elastic behaviour, determine:

- the stress in EB bar,
- the deflection of point B .

Tercümesi: Soru 1: Rijit bir ABC çubuğu A ve B noktalarından iki bağlantı ile desteklenmektedir. AD ve BE , $30 \times 6 \text{ mm}^2$ dikdörtgen kesitli ve $E=200 \text{ GPa}$ 'lık bir elastiklik modülüne sahip bir çelik malzemeden yapılmıştır. B 'ye uygulanan Q kuvvetinin büyüklüğü 150 kN 'dir. Elastik bir davranış varsayarak, şunları belirleyin:
 (i) EB barındaki gerilimi,
 (ii) B noktasının yer değişimini.



Solution 1: Statics: $\sum M_C = 0 : 0.5 (Q - P_{BE}) - 2.5 P_{AD} = 0$

$$P_{BE} + 5P_{AD} = 150 \text{ kN}$$

Deformation: $\delta_{AD} = \frac{2.5}{0.5} \delta_{BE} = 5 \delta_{BE}$

$$\delta_{AD} = \frac{P_{AD} L_{AD}}{E A} \quad , \quad \delta_{BE} = \frac{P_{BE} L_{BE}}{E A}$$

$$\frac{P_{AD} L_{AD}}{E A} = 5 \frac{P_{BE} L_{BE}}{E A} \quad \rightarrow$$

$$P_{AD} = 5 \frac{1}{1.8} P_{BE} \quad \rightarrow \quad P_{AD} = 2.778 P_{BE}$$

From Statics:

$$P_{BE} + 5P_{AD} = 150 \text{ kN} \quad \text{and} \quad P_{AD} = 2.778 P_{BE} \quad \text{give:}$$

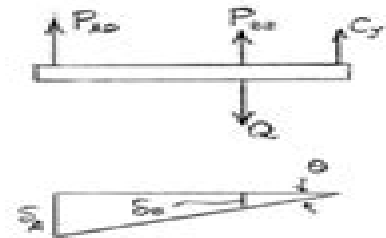
$$P_{BE} + 5 \cdot 2.778 P_{BE} = 150 \text{ kN} \quad \rightarrow \quad P_{BE} = 10.075 \text{ kN}$$

(i)

$$\sigma_{BE} = \frac{P_{BE}}{A} = \frac{10.075 \cdot 10^3}{(30 \cdot 6) \cdot 10^{-6}} = \frac{23621}{1.8 \cdot 10^{-4}} = 55.97 \cdot 10^6 \text{ Pa} = \mathbf{56 \text{ MPa}}$$

(ii)

$$\delta_{BE} = \frac{P_{BE} L_{BE}}{E A} = \frac{10075 \cdot 1}{200 \cdot 10^9 \cdot 225 \cdot 10^{-6}} = 0.00028 \text{ m} = \mathbf{0.280 \text{ mm}}$$



Mechanics Of Materials Fivth Answer

J Dewey



Mechanics Of Materials Fifth Answer:

AFCAT Study Package - Study Material + Solved Papers + 5 Online Practice Sets Disha Experts, 2019-12-28 **The Aeronautical Journal**, 2004 *Schaum's Outline of Strength of Materials, Fifth Edition* William Nash, Merle Potter, 2010-08-27 A classic Schaum's Outline thoroughly updated to match the latest course scope and sequence The ideal review for the thousands of civil and mechanical engineering students who enroll in strength of materials courses About the Book An update of this successful outline in strength of materials modified to conform to the current curriculum Schaum's Outline of Strength of Materials mirrors the course in scope and sequence to help enrolled students understand basic concepts and offer extra practice on topics such as determinate force systems indeterminate force systems torsion cantilever beams statically determinate beams and statically indeterminate beams Coverage will also include centroid of an area parallel axis theorem for moment of inertia of a finite area radius of gyration product of inertia of an element of area principal moments of inertia and information from statics Key Selling Features Outline format supplies a concise guide to the standard college course in Strength of Materials 618 solved problems Clear concise explanations of all Strength of Materials concepts Appropriate for the following courses Strength of Materials Mechanics of Materials Introductory Structural Analysis Mechanics and Strength of Materials Record of Success Schaum's Outline of Strength of Materials is a solid selling title in the series with previous edition having sold over 22 000 copies since 1999 Easily understood review of strength of materials Supports all the major textbooks for strength of materials courses Supports the following bestselling textbooks Johnston Mechanics of Materials 4ed 0073107956 160 34 MGH 2005 Hibbeler Mechanics of Materials 6ed 013191345x 135 48 PEG 2004 Gere Mechanics of Materials 6ed 0534417930 129 82 CEN 2003 Hibbeler Statics and Mechanics of Materials 2ed 0130281271 136 00 PEG 2004 Market Audience Primary For all students of mathematics who need to learn or refresh advanced strength of materials skills Secondary Graduate students and professionals looking for a tool for review Enrollment Strength of Materials 40 562 Introductory Structural Analysis 8 342 Author Profiles William Nash Northampton MA was Professor of Civil Engineering at the University of Massachusetts Amherst Merle Potter Okemos MI is professor emeritus of Mechanical Engineering at Michigan State University **Solutions Manual for the Engineer-in-training Review Manual** Michael R. Lindeburg, 1982 Questions and Answers for Marine Engineers Theodore Lucas, 1903 **Solutions Manual, Mechanics of Materials, Fifth Edition** R. C. Hibbeler, 2003 **Civil Engineering Technicians' Ready-reference Manual** Wendell B. Stephens, 1985 **Professional Engineering Examinations** National Council of Engineering Examiners, 1979 Innovations in Engineering Education, 2005 Engineer-in-training Examination James Warner Morrison, 1976 Solution Manual to Statics and Mechanics of Materials an Integrated Approach (Second Edition), This book is the solution manual to Statics and Mechanics of Materials an Integrated Approach Second Edition which is written by below persons William F Riley Leroy D Sturges Don H Morris **Science Questions & Answers, 1867-1872**

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