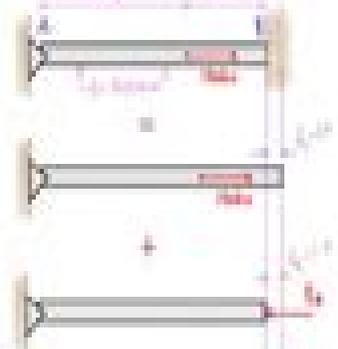
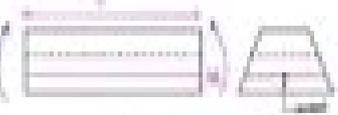
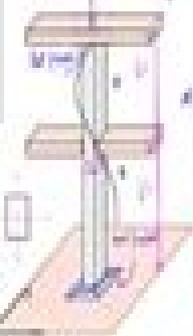
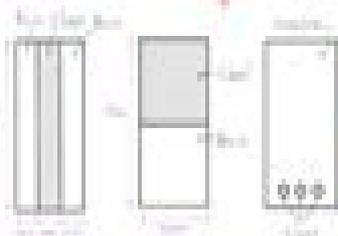
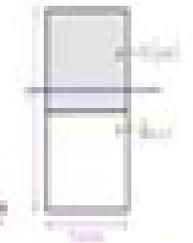
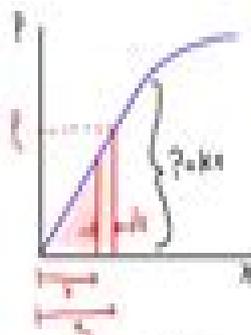
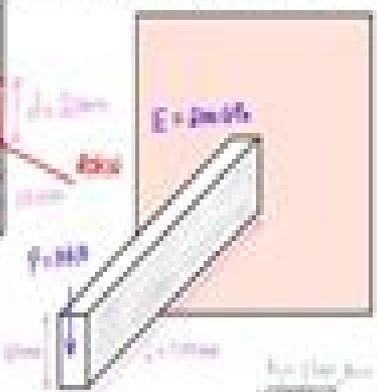
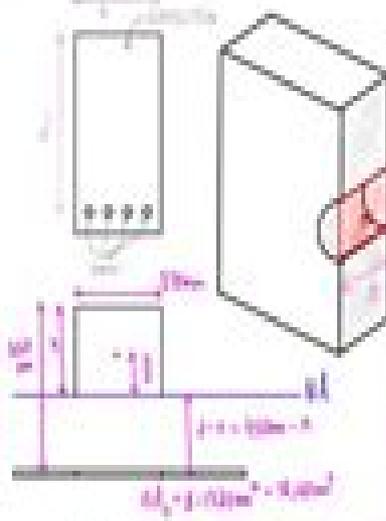


Shear (avg) $\cdot l = \int \tau dx = k \int_0^l dx = \frac{1}{2} k l^2 = \frac{1}{2} k l \cdot l = \frac{1}{2} k l^2$



$\delta = \frac{P l^3}{48 E I}$ (center)

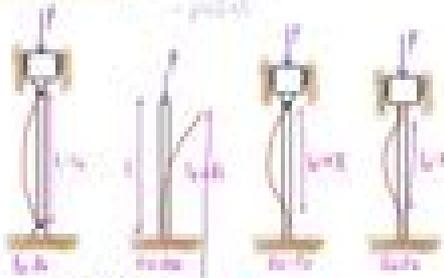
$\delta = \frac{P l^3}{8 E I}$ (end)

Sum of moments = 0

$\sum M = 0$

$\delta = \frac{P l^3}{48 E I}$

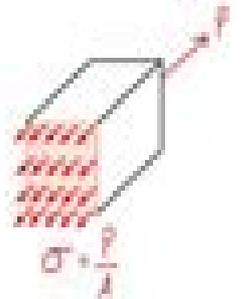
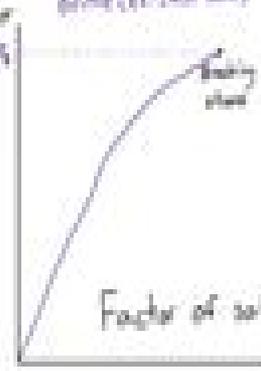
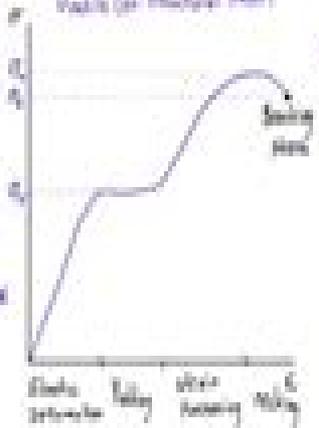
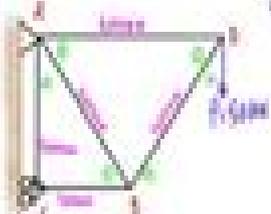
Deflection (at center)



Member	F (kN)	L (m)	A (cm ²)	E (GPa)	$\frac{\delta l}{l}$
AD	50,000	4.0	100 cm ²	200,000	0.125
AB	20,000	4.0	100 cm ²	200,000	0.100
BC	20,000	4.0	100 cm ²	200,000	0.100
AC	0	4.0	100 cm ²	200,000	0
EC	10,000	4.0	100 cm ²	200,000	0.050

$\delta = 20,000 \cdot 4.0^3 / (48 \cdot 200,000 \cdot 100)$

$\delta = 0.00125$



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

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

Mechanics Of Engineering Materials

**Jiann-Wen Woody Ju, J.-L.
Chaboche, George Voyiadjis**

Mechanics Of Engineering Materials:

Deformation and Fracture Mechanics of Engineering Materials Richard W. Hertzberg, Richard P. Vinci, Jason L. Hertzberg, 2020-07-08 *Deformation and Fracture Mechanics of Engineering Materials* Sixth Edition provides a detailed examination of the mechanical behavior of metals ceramics polymers and their composites Offering an integrated macroscopic microscopic approach to the subject this comprehensive textbook features in depth explanations plentiful figures and illustrations and a full array of student and instructor resources Divided into two sections the text first introduces the principles of elastic and plastic deformation including the plastic deformation response of solids and concepts of stress strain and stiffness The following section demonstrates the application of fracture mechanics and materials science principles in solids including determining material stiffness strength toughness and time dependent mechanical response Now offered as an interactive eBook this fully revised edition features a wealth of digital assets More than three hours of high quality video footage helps students understand the practical applications of key topics supported by hundreds of PowerPoint slides highlighting important information while strengthening student comprehension Numerous real world examples and case studies of actual service failures illustrate the importance of applying fracture mechanics principles in failure analysis Ideal for college level courses in metallurgy and materials mechanical engineering and civil engineering this popular is equally valuable for engineers looking to increase their knowledge of the mechanical properties of solids

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Deformation and Fracture Mechanics of Engineering Materials Richard W. Hertzberg, 1976 Updated to reflect recent developments in our understanding of deformation and fracture processes in structural materials This completely revised reference includes new sections on isostress analysis modulus of rupture creep fracture micromechanisms and many more *Mechanics of Engineering Materials* Peter Philip Benham, R. J. Crawford, C. G. Armstrong, 2000 **Mechanics of Engineering Materials. Solutions Manual** Peter Philip Benham, 1996 **Deformation and Fracture Mechanics of Engineering Materials** Richard W. Hertzberg, Richard P. Vinci, Jason L. Hertzberg, 2012-08-07 *Deformation and Fracture Mechanics of Engineering Materials* provides a combined fracture mechanics materials approach to the fracture of engineering solids with comprehensive treatment and detailed explanations and references making it the perfect resource for senior and graduate engineering students and practicing engineers alike The 5th edition includes new end of chapter homework problems examples illustrations and a new chapter on products liability and recall addressing the associated social consequences of product failure The new edition continues to discuss actual failure case histories and includes new discussion of the fracture behavior and fractography of ceramics glasses and composite materials and a section on natural materials including bone and sea shells New co authors Richard P Vinci and Jason L Hertzberg add their talent and expertise to broaden the book s perspective while maintaining a balance between the continuum mechanics understanding of the

failure of solids and the roles of the material's nano and microstructure as they influence the mechanical properties of materials

Deformation and Fracture Mechanics of Engineering Materials Deepak Gupta, 2016 Mechanics is the body of knowledge that deals with the relationships between forces and the motion of points through space including the material space Material science is the body of knowledge that deals with the properties of materials including their mechanical properties Mechanics is very deductive having defined some variables and given some basic premises one can logically deduce relationships between the variables Material science is very empirical having defined some variables one establishes the relationships between the variables experimentally Mechanics of materials synthesizes the empirical relationships of materials into the logical framework of mechanics to produce formulas for use in the design of structures and other solid bodies

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Mechanics of Engineering Materials C. S. Desai, R. H. Gallagher,

The Mechanical Behaviour of Engineering Materials W. D. Biggs, 2013-10-22 The Mechanical Behaviour of Engineering Materials aims to relate properties and structure and to provide a theoretical basis upon which to extrapolate when conditions or materials outside previous experience arise The present text refers primarily to metals and alloys other non crystalline solids are treated rather less fully This is largely dictated by the state of knowledge at the present time for although there is a large mass of data concerning the properties of non metallic materials much of this is empirical and a full explanation is made difficult by the complexities of an irregular initial structure The book can be divided into the three sections covering constitution properties and significance of test data Separate chapters discuss properties such as heterogeneity elasticity plasticity and fracture Subsequent chapters deal with tensile and hardness tests creep fatigue and impact tests and the selection of engineering materials Throughout the text the author has endeavored to confine the discussion to those aspects of materials science which appear to be reasonably well understood at the present time

Damage Mechanics in Engineering Materials Jiann-Wen Woody Ju, J.-L. Chaboche, George Voyiadjis, 1998-03-04 This book contains thirty peer reviewed papers that are based on the presentations made at the symposium on Damage Mechanics in Engineering Materials

on the occasion of the Joint ASME ASCE SES Mechanics Conference McNU97 held in Evanston Illinois June 28 July 2 1997
The key area of discussion was on the constitutive modeling of damage mechanics in engineering materials encompassing the following topics macromechanics micromechanical constitutive modeling experimental procedures numerical modeling inelastic behavior interfaces damage fracture failure computational methods The book is divided into six parts Study of damage mechanics Localization and damage Damage in brittle materials Damage in metals and metal matrix composites Computational aspects of damage models Damage in polymers and elastomers *Damage Mechanics in Engineering Materials* American Society of Mechanical Engineers. Winter Meeting,1990 *Deformation and Fracture Mechanics of Engineering Materials* Richard W. Hertzberg,1989-01-30

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