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bar of rectangular cross section, 15 mm by 60 mm, is loaded
by a compressive force of 110 kN that acts in the longitudinal
direction of the bar. Compute the average normal stress in
the bar.

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P2.2 Solution (a) From the normal strain in rod (2) and its
length, the deformation of rod (2) can be calculated: $(1,080 \text{ } 10 \text{ } 6)(75 \text{ in.}) = 0.0810 \text{ in.}$ 2 2 L2 Since rod (2) is assumed to be
connected to the rigid bar with a perfect connection, the rigid
bar must move downward an amount equal to the
deformation of rod therefore, $v_B = 0.0810 \text{ in.}$ (downward) 2
symmetry, the rigid bar must remain horizontal as it moves
downward, and thus, $v_B = v_A = v_C$.

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MECHANICS OF MATERIALS

Genre/Form: Electronic books: Additional Physical Format: Print version: Philpot, Timothy A. Mechanics of Materials: An Integrated Learning System, 4th Edition.

Mechanics of materials : an integrated learning system ...

Mechanics of materials is a branch of mechanics that studies the internal effects of stress and strain in a solid body that is subjected to an external loading. Stress is associated with the

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strength of the material from which the body is made, while strain is a measure of the deformation of the body.

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For the past forty years Beer and Johnston have been the uncontested leaders in the teaching of undergraduate engineering mechanics. Their careful presentation of content, unmatched levels of accuracy, and attention to detail have made their texts the standard for excellence. The revision of their classic Mechanics of Materials text features a new and updated design and art program; almost every homework problem is new or revised; and extensive content revisions and text reorganizations have been made. The multimedia supplement package includes an extensive strength of materials Interactive Tutorial (created by George Staab and Brooks Breeden of The Ohio State University) to provide

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students with additional help on key concepts, and a custom book website offers online resources for both instructors and students.

This leading book in the field focuses on what materials specifications and design are most effective based on function and actual load-carrying capacity. Written in an accessible style, it emphasizes the basics, such as design, equilibrium, material behavior and geometry of deformation in simple structures or machines. Readers will also find a thorough treatment of stress, strain, and the stress-strain relationships. These topics are covered before the customary treatments of axial loading, torsion, flexure, and buckling.

Now in its 4th Edition, Timothy A. Philpot's Mechanics of Materials: An Integrated Learning System continues to help engineering students visualize key mechanics of materials concepts better than any other text available, following a sound problem solving methodology while thoroughly covering all the basics. The fourth edition retains seamless integration with the author's award-winning MecMovies software. Content has been thoroughly revised throughout the text to provide students with the latest information in the field.

Publisher description

The second edition of MECHANICS OF MATERIALS by Pytel and Kiusalaas is a concise examination of the fundamentals of Mechanics of Materials. The book maintains the hallmark organization of the previous edition as well as the time-tested

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problem solving methodology, which incorporates outlines of procedures and numerous sample problems to help ease students through the transition from theory to problem analysis. Emphasis is placed on giving students the introduction to the field that they need along with the problem-solving skills that will help them in their subsequent studies. This is demonstrated in the text by the presentation of fundamental principles before the introduction of advanced/special topics. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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