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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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77 MECHANICS OF MATERIALS When the thickness of the cylinder wall is about one-tenth or less of inside radius, the cylinder can be considered as thin-walled. In which case, the internal pressure is resisted by the hoop stress and the axial stress. $t = \frac{Pr}{\sigma}$ and $a = \frac{Pr}{\sigma}$ where t = wall thickness and r = inside radius. STRESS AND STRAIN Principal ...

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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 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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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.

The challenges facing humanity in the 21st century include climate change, population growth, overconsumption of resources, overproduction of waste and increasing energy demands. For construction practitioners, responding to these challenges means creating a built environment that provides accommodation and infrastructure with better whole-life performance using low volumes of primary materials, less non-renewable energy, wastefulness and causing fewer disturbances to the natural environment. Concrete is ubiquitous in the built environment. It is therefore essential that it is used in the most sustainable way so practitioners must become aware of the range of sustainable concrete solutions available for construction. While sustainable development has been embedded into engineering curricula, it can be difficult for students and academics to be fully aware of the innovations in sustainable construction that are developed by the industry. *Sustainable Concrete Solutions* serves as an introduction to and an overview of the latest developments in sustainable concrete construction. It provides useful guidance, with further references, to students, researchers, academics and practitioners of

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all construction disciplines who are faced with the challenge of designing, specifying and constructing with concrete.

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.

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