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Mechanics of Advanced Materials and Structures: Vol 26, No 24

In this section, we consider the displacement, strains, and stresses at locations far removed from the end caps. The determination of deformations, strains, and stresses near the junction of the thick-wall end caps and the thick-wall cylinder lies outside the scope of our treatment.

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The method of mechanics of materials is used in this book to treat several advanced beam topics (Chapters 7 to 10). In a similar way, we often assume that lines normal to the middle surface of an undeformed plate remain straight and normal to the middle surface after the load is applied.

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Consequently, the mechanics of materials is being expanded into the theories of elasticity and plasticity. In 1956, Turner, Clough, Martin, and Topp introduced the finite element method, which permits the numerical solution of complex problems in solid mechanics in an economical way.

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To facilitate the transition from elementary mechanics of materials to advanced topics, a review of the elements of mechanics of materials is presented along with appropriate examples and problems. Skip to main content

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