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1.1 TensileStrengthandTensileStress. Perhaps themostnatural test of amaterial's mechanical properties is

the tension test, in which a strip or cylinder of the material, having length L and cross-sectional area A , is anchored at one end and subjected to an axial load P " a load acting along the specimen's long axis " at the other.

MECHANICAL PROPERTIES OF MATERIALS - MIT

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.

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Engineering Mechanics - Bob Tyas

Strength of materials is a basic engineering subject that, along with statics, must be understood by anyone concerned with the strength and physical performance of structures, whether those structures are man-made or natural. At the college level, mechanics of materials is usually taught during the sophomore and junior years.

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The course "Engineering Mechanics" is held for students of the Master Programme "Materials Science and Engineering" at the Faculty of Engineering of the Christian Albrechts University in Kiel. It addresses continuum mechanics of solids as the theoretical background for establishing mathematical models of engineering problems.

Engineering Mechanics - HZG

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MECHANICAL PROPERTIES OF ENGINEERING MATERIALS

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