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1.1 Tensile Strength and Tensile Stress. Perhaps the most natural test of a material'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.

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1. COURSE OUTLINE Objective. The course aims at a comprehensive introduction to the mechanical behavior of solid engineering materials utilized in current materials engineering technologies, including modern device fabrication technologies.

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We will cover elastic and plastic deformation, creep, fracture and fatigue of materials including crystalline and amorphous metals, semiconductors, ceramics, and (bio)polymers, and will focus on the design and processing of materials from the atomic to the macroscale to achieve desired mechanical behavior.

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describes how plastic behavior can be accounted for during fatigue using the strain based approach. Finally, a chapter on creep is included for completeness. This text can be recommended for an introductory undergraduate course in deformation and fracture for mechanical engineering students and materials science students specializing in ...

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Mimicking Mother Nature Ashraf F. Bastawros Fall-2001 Material Sciences and Engineering MatE271 Week  
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