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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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Fundamentals of the Mechanical Behavior of Materials . Questions . 2.1 Can you calculate the percent elongation of materials based only on the information given in Fig. 2.6? 1 Explain. Recall that the percent elongation is defined by Eq. (2.6) on p. 33 and depends on the original gage length ( $l_0$ ) of the specimen. From Fig. 2.6

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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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Here we will learn about the mechanical behavior of structures and materials, from the continuum description of properties to the atomistic and molecular mechanisms that confer those properties to all materials. We will cover elastic and plastic deformation, creep, fracture and fatigue of materials including crystalline and amorphous metals, semiconductors, ceramics, and (bio)polymers, and ...

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This textbook is for courses on Mechanical Behavior of Materials taught in departments of Mechanical Engineering and Materials Science. The text includes numerous examples and problems for student practice.

The book emphasizes quantitative problem solving. End of the chapter notes are included to increase students' interest.

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Mechanical metallurgy, McGraw-Hill, London, Third edition.

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In this second edition, every chapter has been revised and updated to incorporate modern materials. This book presents important principles involved in the mechanical behavior of different materials and is the most up-to-date text on this topic with a balanced presentation of theory of mechanical behaviour of metals, polymers, composites and biomaterials, and a theory of mechanics of solids.

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