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the material's response to unidirectional stress to provide an overview of mechanical properties without addressing the complexities of multidirectional stress states. Most of the chapter will restrict itself to small-strain behavior, although the last section on stress-strain curves will preview material response to nonlinear, yield and fracture behavior as well.

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necessary background for understanding concepts of mechanical behavior as measured and assessed at the macroscopic level. The course will provide senior undergraduate and first-year graduate students with the necessary background for understanding materials mechanical behavior toward addressing materials design and development problems that are important in materials engineering and for following the relevant science & engineering literature.

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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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Fundamentals of the Mechanical Behavior of Materials

This book presents a comprehensive treatment of the principles of the mechanical behavior of materials. Appropriate for senior and graduate courses, Mechanical Behavior of Materials is distinguished by its focus on the relationship between macroscopic properties, material microstructure and fundamental concepts of bonding and crystal structure.

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