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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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Lecture Notes | Mechanical Behavior of 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 will focus on the design and processing of materials from the atomic to the macroscale to achieve desired mechanical behavior.

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in conjunction with knowledge of materials microstructure and bulk properties. 4. Acquiring 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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