

## CHAPTER OVERVIEW

### 50: Elasticity

We have generally been treating solid bodies as if they are infinitely rigid, and do not deform when forces are applied to them, and this is often not a bad approximation. But in the real world, solid bodies do deform somewhat, and we sometimes need to allow for these deformation effects. Elasticity refers to the ability of a material to be deformed somewhat, then return to its original state

[50.1: Introduction to Elasticity](#)

[50.2: Longitudinal \(Normal\) Stress](#)

[50.3: Transverse \(Shear\) Stress—Translational](#)

[50.4: Transverse \(Shear\) Stress—Torsional](#)

[50.5: Volume Stress](#)

[50.6: Elastic Limit](#)

[50.7: Summary](#)

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