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## Lecture 9

### Deformation of Solids

#### Python Concepts

- Basic file handling for reading and writing data (e.g., stress-strain data).
- Curve fitting using `numpy` or `scipy` to analyze experimental data.

#### Application

- Simulating the deformation of a solid under load (e.g., Hooke's law for springs).
- Plotting stress-strain curves and fitting them to experimental data.
- Homework: Extend the simulation to include plastic deformation or fracture.