

# THEORIES OF FAILURE

- Failure in a ductile material is specified by the initiation of *yielding*.
- Failure in a brittle material is specified by *fracture*.

## THEORIES OF FAILURE FOR DUCTILE MATERIALS

### Maximum Shear Stress Theory (Tresca Yield Criterion)

- The most common cause of *yielding of a ductile material* such as steel is *slipping*, which occurs along the contact planes of randomly ordered crystals that make up the material.
- This *slipping* is due to *shear stress* :

$$\tau_{max}^{abs} = \frac{\sigma_{max} - \sigma_{min}}{2}$$

# The Theory Of Materials Failure

**Albert Ernest Roberts Westman, Alfred Copeland Callen, Frank Erwin Richart, Herbert Fisher Moore, Richard Ernest Gould, Anton Brandtzæg, Cloyde Moffett Smith, Marion I. Levy, Norville James Alleman, Rex Lenoir Brown**

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