

虎克定律



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四、应力与应变的关系(虎克定律)

$$\left. \begin{array}{l} \sigma \propto \varepsilon \\ \tau \propto \gamma \end{array} \right\} \longrightarrow \left\{ \begin{array}{l} \sigma = E\varepsilon \\ \tau = G\gamma \end{array} \right. \quad \text{虎克定律}$$

E: 弹性模量 (杨氏模量)

G: 剪切模量

对钢与合金钢:

$$\left\{ \begin{array}{l} E = 200 - 220 \text{ GPa} \\ G = 26 - 30 \text{ GPa} \end{array} \right.$$

