

1.8

For principal stresses, $I_{\tau} = \tau_1 + \tau_2 + \tau_3$, and

$II_{\tau} = \tau_1 \tau_2 + \tau_1 \tau_3 + \tau_2 \tau_3$. Then

$$\begin{aligned} 9 \tau_{oct}^2 &= 2 \tau_1^2 + 2 \tau_2^2 + 2 \tau_3^2 - 2 II_{\tau} \\ &= 2(\tau_1 + \tau_2 + \tau_3)^2 - 4 \tau_1 \tau_2 - 4 \tau_1 \tau_3 - 4 \tau_2 \tau_3 - 2 II_{\tau} \end{aligned}$$

$$\therefore 9 \tau_{oct}^2 = 2(I_{\tau})^2 - 6 II_{\tau}.$$

1.9

The Green tensor is defined as (Eq. (1.32a)):

$$E_{ij} = \frac{1}{2} \left(\frac{\partial \delta_{ik}}{\partial x_j} \frac{\partial \delta_{kj}}{\partial x_i} - \delta_{ij} \right).$$

Then by straightforward substitution, the following strain tensor arrays are found:

(a) Simple dilatation:
$$E_{ij} = \begin{pmatrix} \frac{1}{2}(\lambda^2 - 1) & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{pmatrix}$$

(b) Pure deformation:
$$E_{ij} = \begin{pmatrix} \frac{1}{2}(\lambda_1^2 - 1) & 0 & 0 \\ 0 & \frac{1}{2}(\lambda_2^2 - 1) & 0 \\ 0 & 0 & \frac{1}{2}(\lambda_3^2 - 1) \end{pmatrix}$$

(c) Cubical dilatation:
$$E_{ij} = \frac{1}{2}(\lambda^2 - 1) \delta_{ij}.$$

(d) Simple shear:
$$E_{ij} = \begin{pmatrix} 0 & \frac{1}{2}\Gamma & 0 \\ \frac{1}{2}\Gamma & \frac{1}{2}\Gamma^2 & 0 \\ 0 & 0 & 0 \end{pmatrix}$$

Note in (d) the normal strain E_{22} that occurs in the nonlinear theory for simple shear. Expressed in terms of stresses, this is often called the "normal stress effect".

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Yan Bai



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