

ERRATUM

M. Kleiber, Numerical study on necking-type bifurcations in void-containing elastic-plastic material. *Int. J. Solids Structures* **20** (3), 191-210 (1984).

The correct formulae (2.22), (2.23), (2.24), (2.32), (2.33), (2.35) and (3.13) are given below :

$$\zeta = \zeta \frac{(\omega + f \Sigma s)^2}{1-f} - \frac{(c-f)\sigma_M}{2} \left[3f(1-f)s + 2 \frac{\hat{K}}{\sigma_M} \zeta \frac{\omega + f \Sigma s}{1-f} \right], \quad (2.22)$$

$$\beta = \frac{\sqrt{3}}{2} fs, \quad (2.23)$$

$$\mu = \beta + \frac{(c-f)\hat{K}}{\sqrt{3}}, \quad (2.24)$$

$$\zeta^* = \zeta^* + \bar{s}_{ij}^2 s_{ij}^2 = \zeta + 3G\omega + 3\beta\mu K, \quad (2.32)$$

$$L_{ijkl} = \frac{E}{1+\nu} \left[\frac{\nu}{1-2\nu} \delta_{ij} \delta_{kl} + \frac{1}{2} (\delta_{ik} \delta_{jl} + \delta_{il} \delta_{jk}) \right] - \frac{(G(\sqrt{3}\sigma_{ij}^D/\sigma_M) + K\beta \delta_{ij})(G(\sqrt{3}\sigma_{kl}^D/\sigma_M) + K\mu \delta_{kl})}{\frac{1}{2}\zeta + G\omega + \mu\beta K} - \frac{1}{2} (\sigma_{ik} \delta_{jl} + \sigma_{jk} \delta_{il} + \sigma_{il} \delta_{jk} + \sigma_{jl} \delta_{ik}) \quad (2.33)$$

$$= \left(K - \frac{2}{3} G \right) \delta_{ij} \delta_{kl} + G (\delta_{ik} \delta_{jl} + \delta_{il} \delta_{jk})$$

$$- \frac{(G(\sqrt{3}\sigma_{ij}^D/\sigma_M) + K\beta \delta_{ij})(G(\sqrt{3}\sigma_{kl}^D/\sigma_M) + K\mu \delta_{kl})}{\frac{1}{2}\zeta + G\omega + \mu\beta K}$$

$$- \frac{1}{2} (\sigma_{ik} \delta_{jl} + \sigma_{jk} \delta_{il} + \sigma_{il} \delta_{jk} + \sigma_{jl} \delta_{ik}),$$

$$d_{ij}^{(p)} = s_{ij}^1 \frac{s_{kl}^2 L_{klmnp}^{(e)} d_{mn}}{\zeta^* + s_{kl}^1 L_{klmnp}^{(e)} s_{mn}^2} = s_{ij}^1 \frac{s_{kl}^2 \hat{\sigma}_{kl}}{\zeta + 3G\omega + 3\mu\beta K}, \quad (2.35)$$

$$\Delta \varepsilon_{ij}^{(p)(k)} = + s_{ij}^1 \left[\frac{+\bar{\sigma}^{*(k)} - \bar{\sigma}}{-\zeta + 3G(\omega + \beta \mu (K/G))} + \sqrt{3} \mu \frac{+\sigma_H^{*(k)} - \bar{\sigma}_H}{-\zeta + 3G(\omega + \beta \mu (K/G))} \right]. \quad (3.13)$$

Also, line 5 from the bottom of p. 204 should read :

C1—fundamental solution for elastic-plastic void-containing material without imperfections.