

**ERRATA: A SIMPLE PROOF OF A RESULT
 IN FINITE PLASTICITY***

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For the homogeneous strain cycle (3.2), I overlooked the fact that in the interval $\varepsilon \leq t \leq 2\varepsilon$, i.e., during unloading of the elastic-plastic material, the quantity denoted by $h(t)$ in (3.6)₁ depends parametrically on ε . Consequently, the integral (3.5)₂ should really be written as

$$H_2(\varepsilon) = \int_{\varepsilon}^{2\varepsilon} h(\varepsilon, t)(2\varepsilon - t) dt. \quad (3.5)'_2$$

Accordingly, Leibniz's rule furnishes the results

$$H_2'(\varepsilon) = \int_{\varepsilon}^{2\varepsilon} \left\{ \frac{\partial h}{\partial \varepsilon}(\varepsilon, t)(2\varepsilon - t) + 2h(\varepsilon, t) \right\} dt - h(\varepsilon, \varepsilon)\varepsilon \quad (3.8)'_5$$

and

$$H_2''(\varepsilon) = \int_{\varepsilon}^{2\varepsilon} \frac{\partial}{\partial \varepsilon} \left\{ \frac{\partial h}{\partial \varepsilon}(\varepsilon, t)(2\varepsilon - t) + 2h(\varepsilon, t) \right\} dt + 4h(\varepsilon, 2\varepsilon) \\ - \left\{ \frac{\partial h}{\partial \varepsilon}(\varepsilon, \varepsilon)\varepsilon + 2h(\varepsilon, \varepsilon) \right\} - \frac{dh}{d\varepsilon}(\varepsilon, \varepsilon)\varepsilon - h(\varepsilon, \varepsilon) \quad (3.8)'_6$$

instead of (3.8)_{5,6}, respectively. At $\varepsilon = 0$, (3.5)₂', (3.8)₅', and (3.8)₆' reduce to

$$H_2(0) = 0, \quad H_2'(0) = 0, \\ H_2''(0) = h(0, 0) = L_{KLMN}|_{I=0} m_{KL} m_{MN}.$$

Since the latter values coincide with those used in the paper, no further changes are necessary. In particular, the main result (2.11) still holds, and so do all the conclusions in Sec. 4 of the paper.

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REFERENCE

- [1] R. Fosdick and E. Volkmann, *Normality and convexity of the yield surface in nonlinear plasticity*, Quart. Appl. Math. **51**, 117–127 (1993)