

Corrigendum to “A methodology for the estimation of the effective yield function of isotropic composites” [Int. J. Solids Struct. 87 (2016) 120-138]

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1 Corrigendum

The authors regret the following typographical errors which they would like to amend with this corrigendum.

- i) The line after equation (45) in the original published manuscript [1] should read:
The result stated in (45) was first presented by Ponte Castañeda and deBotton (1992) (*c.f.* equation (16) in that article), who used a “dissipation function” formulation ...
- ii) The paper [2] should be added to the list of references of the original published article [1].
- iii) In the original article [1], the values for the phase reference strains $\varepsilon_0^{(i)}$, defined in equation (73), that have been used to obtain all results in Section 5 have been mistyped. Equation (73) in the original article [1] should read

$$\sigma_y^{(i)}(\bar{\varepsilon}^{(i)}) = \sigma_0^{(i)} \left(1 + \frac{\bar{\varepsilon}^{(i)}}{\varepsilon_0^{(i)}} \right)^{\frac{1}{n^{(i)}}}, \quad \varepsilon_0^{(i)} = 0.005. \quad (1)$$

As a consequence of the above mistype, the corresponding Fig. 10 in the original article [1] showing the yield response of each phase should be replaced by Fig. 1 of the present corrigendum in order to take into account the correct values of $\varepsilon_0^{(i)}$ shown in equation (1) above.

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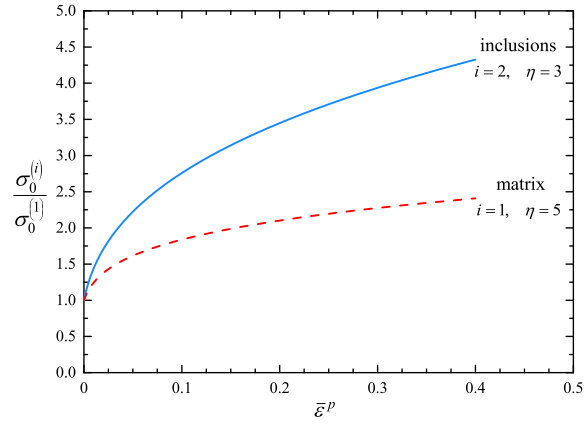


Figure 1: Uniaxial stress-strain curves of phases (Fig. 10 in original article should be replaced with this one).

References

- [1] Papadioti, I., Danas, K., Aravas, N., 2016, ‘A methodology for the estimation of the effective yield function of isotropic composites’, *Int. J. Solids. Struct.* 87, 120–138.
- [2] Ponte Castañeda, P., deBotton, G., 1992, ‘On the homogenized yield strength of two-phase composites’, *Proc. R. Soc. Lond. A* 438, 419–431.