D. R. OWEN & W. O. WILLIAMS

Corrigendum: On the Time Derivatives of Equilibrated Response Functions Vol. 33, pp. 288–306 (1969)

The last equation in Section IV, described as "the defining equation of hypoelasticity" is incorrect. In the usual situation, where \mathscr{X} is the collection of second-order tensors and f(0) is non-singular, the formula should read

$$\dot{\pi}(f) = A(\pi(f)) [\dot{f}(0)f(0)^{-1}].$$

The third in the list of sufficient conditions that π be hypoelastic must then be changed. Thus: π is a hypoelastic function if

1) π is rate-independent and smooth,

2) a_f exists for every $f \in \mathcal{F}$,

3) there exists $A: \mathcal{Y} \to \mathcal{L}(\mathcal{X}, \mathcal{Y})$ such that

$$a_f = A(\pi(f)) \circ R_{f(0)^{-1}}.$$

Here for any $a \in \mathcal{X}$, R_a is the right-multiplication operator:

$$R_a b = ba, \quad b \in \mathscr{X}$$

Accordingly, the last italicized statement in the introduction should read: if the stress is given by a smooth rate-independent function, then the material is hypoelastic if and only if its instantaneous modulus is the composition of a function of the stress with right-multiplication by the inverse of the deformation gradient.

> Carnegie-Mellon University Pittsburgh

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