

## Erratum

Sloan, S.W., Abbo, A.J. and Sheng, D. (2001), "Refined explicit integration of elastoplastic models with automatic error control", *Engineering Computations*, Vol. 18 No. 1/2, pp. 121-54.

A number of errors arose in the production of this paper. The amendments are:

Page 125. Equation (8) should read:  $f = g = \frac{1}{\beta^2} \left( \frac{(1 + \beta')p'}{p'_0} - 1 \right)^2 + \left( \frac{(1 + \beta')q}{M(\theta)p'_0} \right)^2 - 1$

Page 126. The equation for  $M(\theta)$  should read

$$M(\theta) = M_{\max} \left( \frac{2\alpha^4}{1 + \alpha^4 + (1 - \alpha^4) \sin 3\theta} \right)^{1/4}$$

Page 126. Para 2, line 1:  $\theta = -30^\circ$

Page 126. Definition for  $A$  should read:  $A = -\frac{\partial f}{\partial H} \frac{\dot{H}}{\lambda} = -\frac{vp'_0}{\lambda - k} \frac{\partial f}{\partial p'_0} \frac{\dot{p}'_v}{\lambda} = -\frac{vp'_0}{\lambda - k} \frac{\partial f}{\partial p'_0} \frac{\partial g}{\partial p'}$

Page 129. Last line should read: Set  $\alpha_1 = \alpha_0$  and  $F_1 = F_0$

Page 130. Second line should read: Set  $F_1 = \frac{F_1 F_0}{F_0 + F_{\text{new}}}$

Page 139. Second last line: align "else:" with start of first line in step (4)

Page 140. In step (8), the second last line of equations should read:

$$\bar{\sigma}_1 = \sigma_T \quad \bar{H}_1 = H_T$$

Page 140. In step (9), the first equation should read:  $\bar{\sigma}_{T+\Delta T} = \sigma_T + \frac{1}{2}(\Delta\sigma_1 + \Delta\sigma_2)$

Page 141. Step (13): Start of text should be aligned with that of steps (12) and (14).

Page 141. Last three lines of step (14) should read:

Update psuedo time and compute new step size according to:

$$T \leftarrow T + \Delta T$$

$$\Delta T \leftarrow q\Delta T$$

Page 142. In step (8), the expression for  $A_i$  should read:  $A_i = -(\partial f / \partial H) B_i$

Page 144. In equations (30), the coefficient for  $\Delta H_5$  should read:  $+\frac{81}{88}$

Page 144. The expressions for  $\Delta\sigma_i$  and  $\Delta H_i$  in the third group of equations should read:

$$\Delta\sigma_i = \mathbf{D}_{cp}(\bar{\sigma}_i, \bar{H}_i) \Delta\varepsilon_n$$

$$\Delta H_i = \Delta\lambda(\bar{\sigma}_i, \bar{H}_i, \Delta\varepsilon_n) B(\bar{\sigma}_i)$$

Page 145. In step (9), the coefficient for  $\Delta H_5$  should read:  $+\frac{81}{88}$

Page 145. The first equation in step (10) should read:

$$R_{T+\Delta T} = \max \left\{ \frac{\|\mathbf{E}_{T+\Delta T}^\sigma\|}{\|\bar{\sigma}_{T+\Delta T}\|}, \frac{|\mathbf{E}_{T+\Delta T}^H|}{\bar{H}_{T+\Delta T}}, EPS \right\}$$

Page 146. Last three lines of step (14) should read:

Update psuedo time and compute new step size according to:

$$T \leftarrow T + \Delta T$$

$$\Delta T \leftarrow q\Delta T$$

Although not mentioned explicitly, the paper follows the usual soil mechanics convention of compression positive.