

## CORRECTIONS

**Tatsuya Yamaue,\* Hiroto Mukai, Kinji Asaka, and Masao Doi:** Electrostress Diffusion Coupling Model for Polyelectrolyte Gels. Volume 38, Number 4, February 22, 2005, pp 1349–1356.

The following equations should appear as follows:

$$\mathbf{j}_s = -\kappa \nabla p - \lambda \nabla \psi \quad (2)$$

$$\nabla \cdot \mathbf{j}_e = 0 \quad (9)$$

$$\nabla \cdot (c_p w_p \mathbf{v}_p + c_s w_s \mathbf{v}_s + \sum_i c_i w_i \mathbf{v}_i) = 0 \quad (10)$$

$$\nabla \cdot (\sigma - p \mathbf{I}) = 0 \quad (11)$$

$$\lambda_p = -\frac{q_p}{\zeta_p}(1 - \phi_p) \quad (19)$$

$$\lambda_i = \sum_i \frac{c_i q_i w_i}{\zeta_i} \quad (20)$$

$$(\sigma - p \mathbf{I}) \cdot \mathbf{n} = \mathbf{f}_{bc} \quad \text{for a deformable boundary} \quad (21)$$

$$(\sigma - (k_B T \sum_i c_i + p) \mathbf{I}) \cdot \mathbf{n} = \mathbf{f}_{bc} \quad (23)$$

$$(\sigma - (k_B T \sum_i [[c_i]] + [[p]]) \mathbf{I}) \cdot \mathbf{n} = 0 \quad (24)$$

$$\mathbf{j}_s \cdot \mathbf{n} = 0 \quad \text{for an impermeable wall} \quad (26)$$

$$\mathbf{j}_s \cdot \mathbf{n} = \kappa_b [[p]] \quad (27)$$

$$\mathbf{j}_e \cdot \mathbf{n} = \dot{\Phi}/C \quad (29)$$

$$\zeta_p = \frac{6\pi\eta}{\xi_b^2 c_p} \quad (31)$$

$$u_y = \frac{xy}{R(t)}. \quad (39)$$

$$u_z = \frac{xz}{R(t)} \quad (40)$$

$$f(x, t) = \frac{\partial u_x}{\partial x} + \frac{2x}{R(t)} \quad (41)$$

$$p(x, t) = \sigma_{xx}(x, t) \quad (45)$$

$$D' = \left( \kappa - \frac{\lambda^2}{\sigma_e} \right) \left( K + \frac{4}{3} G \right) \quad (52)$$

On p 1352, right side, lines 12–13, the sentence should read: For typical swollen polyelectrolyte gel of fluorocarbon, we can take  $\phi_p \sim 0.5$ ,  $\xi_b \sim 1.0$  [nm], and  $c_i \sim 1.0/z$  [mol/L].

On p 1352, right side, lines 42–43, the sentence should read: For  $\phi_p$  and  $c_i$ , we use the value  $\phi_p \sim 0.7$  and  $c_i \sim 1.0/z$  [mol/L], which are reported in ref 15.

$f(x, t) \equiv \nabla \mathbf{u}(\mathbf{r}, t)$  is modified to  $f(x, t) \equiv \nabla \cdot \mathbf{u}(\mathbf{r}, t)$ .

In the caption of Figure 7,  $\tau_{\text{relax}}/\tau_{\text{relax}, H^+}$  is modified to  $\tau_{\text{relax}}/\tau_{\text{relax}, H^+}$ .

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