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CORRECTION TO THE PAPER
"RATE EQUATIONS FOR TRACER STUDIES
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BY JOHN HAPPEL[1]

By

John HAPPEL[*]

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The present author discovered two errors in his note[1]. Equation (13) should read:

$$\lambda = \frac{1}{2}\left[-\left(\frac{Wv_1}{\beta C^A} + \frac{v_1+v_2}{C^{Al}} + \frac{Wv_2}{\beta C^B}\right)\right.$$
$$\left. \pm \sqrt{\left(\frac{Wv_1}{\beta C^A} + \frac{v_1+v_2}{C^{Al}} + \frac{Wv_2}{\beta C^B}\right)^2 - 4\left(\frac{Wv_1v_2}{\beta C^A C^{Al}} + \frac{W^2v_1v_2}{\beta^2 C^A C^B} + \frac{Wv_1v_2}{\beta C^{Al}C^B}\right)}\right]$$

Equation (16) should read:

$$z^B = C_1\left[\left(\frac{C^{Al}\lambda_1}{v_2} + \frac{v_1+v_2}{v_2}\right)\left(\frac{\beta C^A}{Wv_1}\lambda_1+1\right) - \frac{v_1}{v_2}\right]e^{\lambda_1 t}$$
$$+ C_2\left[\left(\frac{C^{Al}\lambda_2}{v_2} + \frac{v_1+v_2}{v_2}\right)\left(\frac{\beta C^A}{Wv_1}\lambda_2+1\right) - \frac{v_1}{v_2}\right]e^{\lambda_2 t} + C_3$$

With these corrections, it is then possible to compute the values of C_1, C_2 and C_3 from Equations (14)–(16) by specifying three initial values of concentration z_0^A, z_0^{Al} and z_0^B. Equation (17) is not an independent additional relationship.

1) J. HAPPEL, This Journal, **22**, 206 (1975).
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