

## Errata

• In the article titled "Correlation of Fractionation Tray Performance via a Cross-Flow Boundary-Layer Model" by T. C. Young and W. E. Stewart (April 1992, Vol. 38, p. 592), the following corrections are required:

1. Equation 15 should read as follows:

$$\phi_{A,L} = -\frac{c_G}{c_L} \left( \frac{\mathcal{D}_{AB,G}}{\mathcal{D}_{AB,L}} \right)^{1/2} \phi_{A,G}$$

2. The third heading of Table 8 should read  $S'(\theta)$ , not  $S(\hat{\theta})$ .

3. In the two equations of Appendix II, read  $V_G$  and  $V_L$  as denominators, not as superscripts.

• In the article titled "Parameter Estimation from Multiresponse Data" by W. E. Stewart, M. Caracotsios, and J. P. Sørensen (May 1992, Vol. 38, p. 641), the dates "1976, 1981" under Investigation 7 in Table 7 are not applicable and should be replaced with the word "consultants" submitted by the authors.

• In the article titled "A Molecular Mechanism for Gas Hydrate Nucleation from Ice" by E.D. Sloan, Jr. and F. Fleyfel (September 1991, Vol. 37, p. 1281), the authors would like to correct the errors made in the article. There are two sign errors in Eqs. 7 and 8. These equations should read:

$$[C] = [A_0] (F_1 e^{-k_1 t} - F_2 e^{-k_2 t} + F_3 e^{-k_3 t}) \quad (7)$$

$$[D] = -\frac{k_3}{k_1} [A_0] F_1 (e^{-k_1 t} - 1) + \frac{k_3}{k_2} [A_0] F_2 (e^{-k_2 t} - 1) - [A_0] F_3 (e^{-k_3 t} - 1) \quad (8)$$

Sign errors also invalidate the results of the regression presented on p. 1290. The authors performed the regression again using the corrected equations to obtain new rate constants. The results of our efforts provide regressed rate constants such that a unique  $k \approx k_1 \approx k_2 \approx k_3$  was found for each temperature's data set in Figure 14 except for  $T = 183$  K due to a lack of data. The regressed rate constants correlate with induction time—longer induction times have smaller rate constants. A revised Figure 15 illustrates how  $k$  varied with temperature. The manner in which  $k$  varied with temperature is directly indicative of the induction time for that temperature. Table 4 is also revised. The authors apologize for any inconvenience caused by these errors in the original article.

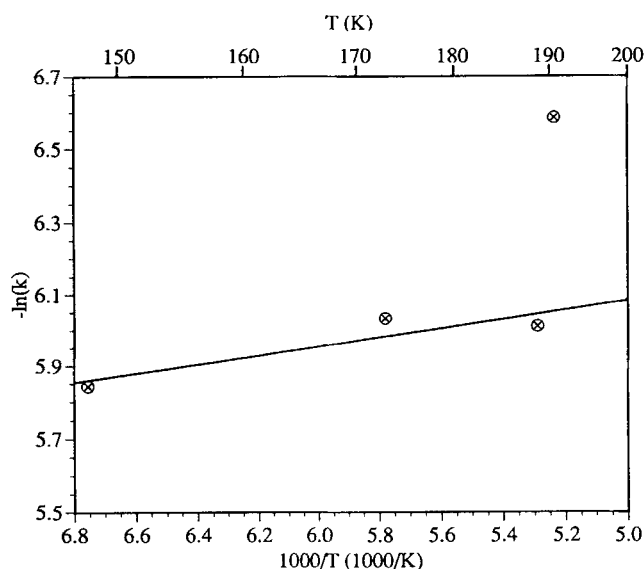


Figure 15. Arrhenius plot of rate constants ( $k = k_1 = k_2 = k_3$ ) in proposed hydrate formation mechanism.

Table 4. Nonlinear Regression of Figure 14

Temp. K	$k$	$k_1$	$k_2$	$k_3$
148	0.00290	0.002929	0.002927	0.002911
173	0.00240	0.002387	0.002399	0.002421
189	0.00245	0.002451	0.002459	0.002450
191	0.00138	0.001377	0.001387	0.001380