Erratum 1

The following are corrections to the paper titled "An Accurate Van der Waals-Type Equation of State for the Lennard–Jones Fluid" by M. Mecke, A. Müller, J. Winkelmann, J. Vrabec, J. Fischer, R. Span, and W. Wagner that appeared in *International Journal of Thermophysics* **17**:391 (1996).

In a recent paper we reported an equation of state for the Lennard–Jones fluid in the form

$$F = F_H + F_A \tag{1}$$

with F_A given by

$$F_A/RT = \sum_i c_i (T^*/T_c^*)^{m_i} (\rho^*/\rho_c^*)^{n_i} \exp[\, p_i (\rho^*/\rho_c^*)^{q_i}\,] \tag{4}$$

where the powers m_i, n_i, p_i, and q_i as well as the coefficients c_i are given in Table III (page 397) of that paper. In that table an error occurred in line 19, which should read properly

c	m	n	p	q
$-0.61568007279E\text{-}01$	-5.0	2	-1	2

We thank Dozent Dr. Rolf Lustig, Department of Chemistry, Pennsylvania State University, University Park, Pennsylvania, U.S.A., for bringing this error to our attention.

Erratum 2

The following are corrections to the paper titled "An Equation of State for Two-Center Lennard–Jones Fluids" by M. Mecke, A. Müller, J. Winkelmann, and J. Fischer, that appeared in *International Journal of Thermophysics* **18**:683 (1997).

In a recent paper we reported an equation of state for the Lennard–Jones fluid in the form

$$F = F_H + F_A \tag{1}$$

The term F_H is given in Eq. (6) of that paper in correct form. It is given more explicitly in Eq. (12) (page 686) which, however, contains an error and should read properly as

$$\frac{F_H}{RT} = (f_3(L)^2 - 1) \ln(1 - \xi) + \frac{(f_3(L)^2 + 3f_3(L))\,\xi - 3f_3(L)\,\xi^2}{(1 - \xi)^2} \tag{12}$$

Moreover, Eq. (9) for $f_2(L)$ (page 686) also contains errors and should read properly as

$$f_2(L) = \begin{cases} (1/4)[(P_5 + P_6 L)/(1 + P_7 L + P_8 L^2)]^{1/2} & \text{for} \quad L = 0.0 \\ [(P_5 + P_6 L)/(1 + P_7 L + P_8 L^2)]^{1/2} & \text{for} \quad L > 0.0 \end{cases} \tag{9}$$

We thank Dr. Martin Lisal from the Institute of Chemical Process Fundamentals, Prague, Czech Republic for bringing these errors to our attention.

Erratum 3

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The following are corrections to the paper titled "Thermodynamic Properties of n-Hexane" by B. A. Grigoryev, Y. L. Rastorguyev, A. A. Gerasimov, D. S. Kurumov, and S. A. Plotnikov that appeared in the *International Journal of Thermophysics* 9:439 (1988).

Equation (1) reads

$$z = 1 + \sum_{i=1}^{r} \sum_{j=0}^{s} b_{ij}\,\omega^i \theta^j \tag{1}$$

with coefficients (page 446)

$b_{10} = 1.418961$

$b_{11} = -4.460154$

$b_{12} = 2.838127$

$b_{14} = -1.155566$

$b_{18} = 2.981982 \times 10^{-2}$

$b_{20} = -2.971036 \times 10^{-1}$

$b_{21} = 5.298878 \times 10^{-1}$

$b_{22} = -5.467548$

$b_{24} = 1.200501$

$b_{28} = -5.893447 \times 10^{-2}$

$b_{30} = 8.874639 \times 10^{-1}$

$b_{31} = -1.058535 \times 10^{-1}$

$b_{32} = 1.031171 \times 10^{-1}$

$b_{33} = -8.860190 \times 10^{-1}$

$b_{38} = 1.969848 \times 10^{-2}$

$b_{40} = 1.355310$

$b_{41} = 5.780836$

$b_{42} = -6.441410$

$b_{50} = -2.132277$

$b_{51} = -2.660180 \times 10^{-1}$

$b_{52} = 1.482821$

$b_{60} = 1.015613$

$b_{61} = -5.151667 \times 10^{-1}$

$b_{70} = -2.019526 \times 10^{-1}$

$b_{71} = 8.836143 \times 10^{-2}$

$b_{74} = -4.340096 \times 10^{-3}$

$b_{78} = -9.908889 \times 10^{-3}$

$b_{80} = 1.552810 \times 10^{-2}$

$b_{82} = -6.039342 \times 10^{-3}$

$b_{84} = 1.331250 \times 10^{-3}$

$b_{85} = -8.367965 \times 10^{-5}$

$b_{88} = 1.851536 \times 10^{-5}$

In addition, the temperature-correction function $f(\theta)$ is given by

$$f(\theta) = \sum_{i=1}^{8} a_i(\theta - 1)^i$$

with coefficients

$a_1 = 0.172;\quad a_2 = 0;\qquad\qquad a_3 = 4.6371;\quad a_4 = -2.6663$

$a_5 = 3.0747;\quad a_6 = -0.90653;\qquad a_7 = 0.52677;\quad a_8 = -0.037954$