

# ERRATA

## Handbook on Lead-bismuth Eutectic Alloy and Lead Properties, Materials Compatibility, Thermal-hydraulics and Technologies

2007 Edition

### Chapter 2

- 1) Remove the first K in formulae (2.7), (2.8) and (2.9) on pages 37 and 39:

$$T_{boil Pb} = 2016 \text{ K} \pm 10 \text{ K} \rightarrow T_{boil Pb} = 2016 \pm 10 \text{ K}$$

$$T_{boil Bi} = 1806 \text{ K} \pm 50 \text{ K} \rightarrow T_{boil Bi} = 1806 \pm 50 \text{ K}$$

$$T_{boil LBE} = 1943 \text{ K} \pm 50 \text{ K} \rightarrow T_{boil LBE} = 1943 \pm 50 \text{ K}$$

- 2) Change coefficients in formula (2.15) on page 42:

$$p_s = 6.5715 \times 10^9 \cdot \exp(-22247/T) \rightarrow p_s = 6.189 \times 10^9 \cdot \exp(-22216/T)$$

- 3) Replace the above mentioned formula in Table 2.18.1 on page 89.

- 4) Change coefficient in the expression for lead heat capacity in Table 2.18.1 on page 89:

$$c_p = 175.1 - 4.961 \times 10^{-2} \cdot T + 1.985 \times 10^{-6} \cdot T^2 - 2.099 \times 10^{-9} \cdot T^3 - 1.524 \times 10^6 \cdot T^{-2}$$
$$\rightarrow c_p = 175.1 - 4.961 \times 10^{-2} \cdot T + 1.985 \times 10^{-5} \cdot T^2 - 2.099 \times 10^{-9} \cdot T^3 - 1.524 \times 10^6 \cdot T^{-2}$$

- 5) Correct the reference on p. 97:

G.M. Mustafin, G.F. Shaikhiev, (1983), Russ. J. Phys. Chem. 45, 422

→ G.M. Mustafin, G.F. Shaikhiev, (1983), Russ. J. Phys. Chem. 57, 421

### Chapter 6

- 1) In formulas (6.1) and (6.2) on page 232, replace **C** by **a**, and also in the text of page 232.

- 2) In figure 6.2.1 on page 233, replace the reference [Tortorelli, 1987] by [Weeks, 1956], and also in the text of page 232.

- 3) Corrections of references on page 272:

a. J. Zhang, N. Li, J.S. Elson, *Progress in Materials Science* (forthcoming, 2004)  
→ Zhang, J., Li, N., Elson, J.S. *Progress in Materials Science* (forthcoming, 2004) (and move it at the end of page 274).

b. Kondo, M., *et al* (2005), "Metallurgical Study on Erosion and Corrosion Behaviour of Steels Exposed to Liquid Lead-Bismuth Flow", *Journal of Nuclear Material*, 343, pp. 349-359. Eliminate, since the same citation appears twice.