Comments

Composition Units Used for Plotting Diagrams

"I thought that it had been settled 25 years ago that phase diagrams should be in atomic percent!"

Robin Williams
Oak Ridge National Laboratory

See reply to this comment in the Editor's Corner of this issue.

Clarification of References 41 and 45 for Al-Cu System

"I was left somewhat perplexed by the two figures that appeared with the "Additional References" presented with the Al-Cu system in Vol. 1, No. 1. Figure 7 on page 32 refers to Ref 41, but no indication of the significance of the experimental points plotted as open circles and crosses is given.

Figures 8(a) and 8(b) on page 33 puzzled me until I realized that Fig. 8(b) is wrong in referring to Stockdale data points. The thermal analysis data indicated by open squares in Fig. 8(a) and 8(b) are from Ref 45—E. Schürmann and H. Löblich, *Metall., 31,* p 610 (1977). Incidentally, Hansen and Anderko did not show the liquidus line S/S + $CuAl_2$ as a straight line, as indicated by Schürmann and Löblich (see Fig. 8a)."

Alan Prince
Hirst Research Centre
The General Electric Co., Ltd.

See Addenda for Al-Cu system on this page.

Aluminum Solvus in The Ag-Al System

"Regarding the evaluation of the Ag-Al system presented in Vol. 1, No. 1, the thermodynamic arguments by Easton and myself [72] clearly establish that the solubility curve of Ag in Al has an inflection point. The actual values may be as shown by Roberts and Chadwick [82] in Fig. 4, or some average of his observations with those of Raynor and Wakeman [26], Borelius and Larsson [28], Rotherham and Larke [30], and Koster and Knodler [31]. The thermodynamic description is in approximate agreement with the metastable miscibility gap for the fcc solid solution described by Bauer and Gerold in two more additional references."

Robin Williams
Oak Ridge National Laboratory

See Addenda for Ag-Al system on this page.

Addenda

Lattice Parameter Values

A consistent error was made in changing from angstroms to nanometers in the lattice parameter values presented in Vol. 1, No. 1. In making the conversion, the values were inadvertently decreased by two decimal points instead of one. Therefore, all the values shown in that issue should be increased by a factor of ten.

These values appear in the tables on pages 27, 28, 30 (Table 2), 38, 45, 50, 63, 67, 68, 69, 77 and 87, in the graphs that appear on pages 45 (Fig. 3) and 67 (Fig. 5), in the text that appears on pages 38 (paragraph 4 in "Crystal Structures") and 65 (paragraph 3), and in the references that appear on pages 66 (ref 10, 12 and 14), 67 (Ref 14, 15 and 18) and 86 (Ref 25).

The Ag-Al (Silver-Aluminum) System

The following references should be added to "Additional References" on page 41 of Vol. 1, No. 1:

83. R. Bauer and V. Gerold, Segregation Kinetics in the Aluminum–Silver System, *Z. Metallkunde, 52,* p 671 (1961) in German.
84. R. Bauer and V. Gerold, The Existence of a Metastable Miscibility Gap in Aluminum–Silver Alloys, *Acta Metall., 10,* p 637 (1962).
85. S. Barat and J.K. Mukherjee, Silver-Rich Alloys of the Systems Ag-Al-Ge and Ag-Al-Sn, *Indian J. Technol., 13*(11), p 510-519 (1975). (Lattice parameters of Ag with up to 38 at.% Al)

The Ag-Cu (Silver-Copper) System

In Reference 62 on page 44 of Vol. 1, No. 1, the authors should read "J.H. Perepezko and T.B. Massalski".

The Al-Cu (Aluminum-Copper) System

In Fig. 7 on page 32 of Vol. 1, No. 1, add the legend:
○ Ref 41
x [Hansen]

In Fig. 8(a) and 8(b) on page 33, add "[45]" after "Thermal analysis" in the legends. In Fig. 8(a), change "Hansen" in the subcaption to "Hansen's." In Fig. 8(b), delete the entire first line of the subcaption.

The Cu-In (Copper-Indium) System

The following reference should be added to "Additional References" on page 77 of Vol. 1, No. 1:

11. K.T. Jacob and C.B. Alcock, Activity of Indium in α-Solid Solutions of Cu + In, Au + In and Cu + Au + In Alloys, *Acta Metall., 21,* p 1011 (1973). (Chemical potential of Cu in α_{Cu} solid solution)