The Ag-Sb phase diagram in [Massalski2] was redrawn from [Hansen]. The phase boundaries of the  $\varepsilon$  and  $\varepsilon'$  phases were mostly undetermined. An  $\varepsilon$  to  $\varepsilon'$  polymorphic transformation was reported at 440 (Ag-rich end) to 449 °C (Sb-rich end).

The phase boundaries of  $\varepsilon$  in Fig. 1 are as determined by [92Fes] by means of DTA and XRD. Diffraction spectra of specimens quenched from above and below the presumed transformation temperature of  $\varepsilon$  were identical. Hence, an  $\varepsilon'$  phase is not shown in Fig. 1.

The liquidus of the cph  $\zeta$  phase is adjusted in Fig. 1 so that it can be smoothly extrapolated to ~800 °C at 0 at.% Sb (approximate melting point of cph Ag [930ka]).

### **Cited References**

92Fes: P. Feschotte, F. Monachon, and P. Durussel, J. Alloys Compounds, 186, L17-L18 (1992).

# Al-Sb (Aluminum-Antimony)

### H. Okamoto

The Al-Sb phase diagram in [Massalski2] was redrawn from [84Mca]. [90Cou] also reported a very similar diagram (not shown). Both [84Mca] and [90Cou] calculated the phase diagram by optimization of thermodynamic and phase boundary data. The calculated phase boundaries of both works are in good agreement with experimental results.

### **Cited References**

- **84Mca:** A.J. McAlister, Bull. Alloy Phase Diagrams, 5(5), 462-465 (1984).
- 90Cou: C.A. Coughanowr, U.R. Kattner, and T.J. Anderson, *Calphad*, 14, 193-202 (1990).

## Au-In (Gold-Indium)

### H. Okamoto

The Au-In phase diagram in [Massalski2] was adopted from [870ka]. The Au-rich phase boundary of  $\zeta$  was unknown, and the existence of the  $\alpha_1$  phase with a nearly constant width to low temperatures was questioned.

[92Ans] calculated the Au-In phase diagram by optimization of thermodynamic [88Ans] and phase diagram data (same as [87Oka]). The  $\zeta$  and  $\alpha_1$  phase boundaries of the [87Oka] diagram are modified in Fig. 1 according to the calculated results. The phase boundaries below the eutectoid decomposition of  $\alpha_1$  must be confirmed experimentally. Boundaries of other phases have not been modified because [92Ans] assumed no solubility ranges in their model, whereas [87Oka] showed substantial ranges for the  $\gamma$  and  $\psi$  phases, as shown in Fig. 1.

### **Cited References**

87Oka: H. Okamoto and T.B. Massalski, *Phase Diagrams of Binary Gold Alloys*, H. Okamoto and T.B. Massalski, Ed., ASM International, Metals Park, OH, 142-153 (1987).

88Ans: I. Ansara and J.P. Nabot, *Thermochim. Acta, 129*, 89-97 (1988). 92Ans: I. Ansara and J.P.Nabot, *Calphad, 16*(1), 13-18 (1992).

### Be-Nb (Beryllium-Niobium)

### H. Okamoto

The Be-Nb phase diagram in [Massalski2] was redrawn from [870ka], who added  $Be_5Nb$  to the diagram of [Massalski1] based on the report of this compound by [61Arz] and [63Arz],

with confirmation by [68Ray]. In this diagram, the peritectoidal formation of  $Be_5Nb$  and eutectoidal decomposition of  $Be_{17}Nb_2$  were shown at 1485 and 1415 °C, respectively, ac-

<sup>930</sup>ka: H. Okamoto and T.B. Massalski, to be published in J. Phase Equilibria, 14(1993).