Ge-Zr (Germanium-Zirconium)

H. Okamoto

The Ge-Zr phase diagram in [Massalski2] was redrawn from [1986Abr]. The outline of the phase diagram was based on [1956Car]. The Ge_4Zr_5 phase, which was found first by [1965Ros], was added to this phase diagram. Because the formation reaction of Ge_4Zr_5 was unknown, [1986Abr] showed this phase only up to 1620 °C. The liquidus of Ge_3Zr_5 in [1956Car] was very asymmetric around the congruent melting point. This unlikely feature was transcribed in [1986Abr].

Figure 1 shows the Ge-Zr phase diagram calculated by [2011Sha] based on literature data and their own measurements. The problem of asymmetry described above has been solved.

References

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Fig. 1 Ge-Zr phase diagram