Phase Diagram Evaluations

The *Journal* contains provisional evaluated phase diagrams (together with associated data) of systems that are of principal interest to those in metallurgy and metals-related fields, including metal-metal, metal-metalloid, and metal-gas systems; the various forms of presentation can include pressure-temperature, metastable, and multicomponent diagrams.

All evaluations are contributed to the *Journal* by Category Editors, Contributing Editors, and their co-investigators. To enhance the value of the list of references accompanying each evaluation, the editors are providing some additional specific information in parentheses following each reference. These annotations will include indication of: (a) key papers, by an asterisk placed in front of the reference designation (*e.g.*, *1983Abc); (b) nature of the data available (*i.e.*, Equilibrium Diagram, Metastable Phases, Crystal Structure, Thermodynamics, and Pressure); (c) document classification (*i.e.*, Experimental, Theory, Review, or Compilation); and (d) presence of an accepted phase diagram, or portion of one, by a number sign (#) at the end of the annotation. References frequently cited in evaluations that follow are cited by author name rather than by number; these general references are listed below.

General References

- [Elliott]: R.P. Elliott, Constitution of Binary Alloys, First Supplement, originally published by McGraw-Hill, reprinted and available from Genium Publishing, Schenectady, NY, 1965
- [Hansen]: M. Hansen and K. Anderko, *Constitution of Binary Alloys*, originally published by McGraw-Hill, reprinted and available from Genium Publishing, Schenectady, NY, 1958
- [Hultgren,B]: R. Hultgren, P.D. Desai, D.T. Hawkins, M. Gleiser, and K.K. Kelley, *Selected Values of the Thermodynamic Properties of Binary Alloys*, American Society for Metals, Metals Park, OH, 1973
- [Hultgren,E]: R. Hultgren, P.D. Desai, D.T. Hawkins, M. Gleiser, K.K. Kelley, and D.D. Wagman, *Selected Values of the Thermodynamic Properties of the Elements*, American Society for Metals, Metals Park, OH, 1973
- [**King1**]: H.W. King, Crystal Structures of the Elements at 25 °C, *Bull. Alloy Phase Diagrams*, Vol 2 (No. 3), 1981, p 401-402
- [King2]: H.W. King, Temperature-Dependent Allotropic Structures of the Elements, *Bull. Alloy Phase Dia*-

- grams, Vol 3 (No. 2), 1982, p 275-276; Vol 3 (No. 3), 1982, p 308
- [King3]: H.W. King, Pressure-Dependent Allotropic Structures of the Elements, *Bull. Alloy Phase Diagrams*, Vol 4 (No. 4), 1983, p 449-450
- [Landolt]: Landolt-Börnstein Tables, New Series, Group II, Structure Data of Elements and Intermetallic Compounds, Vol 6, Springer-Verlag, New York, 1971
- [Massalski1]: T.B. Massalski, J.L. Murray, L.H. Bennett, and H. Baker, *Binary Alloy Phase Diagrams*, Vol 1 and 2, American Society for Metals, Metals Park, OH, 1986
- [Massalski2]: T.B. Massalski, P.R. Subramanian, H. Okamoto, and L. Kacprzak, Ed., *Binary Alloy Phase Diagrams*, 2nd ed., Vol 1, 2, and 3, ASM International, Materials Park, OH, 1990
- [Melt]: Melting Points of the Elements, Bull. Alloy Phase Diagrams, Vol 7 (No. 6), 1986, p 601-602
- [Metals]: Metals Handbook, Metallography, Structures and Phase Diagrams, Vol 8, 8th ed., American Society for Metals, Metals Park, OH, 1973

- [Moffatt]: W.G. Moffatt, *Handbook of Binary Phase Diagrams*, Genium Publishing, Schenectady, NY, 1978 and Supplements
- [Pearson1]: W.B. Pearson, Handbook of Lattice Spacings and Structures of Metals and Alloys, Vol 1, Pergamon, New York, 1958
- [Pearson2]: W.B. Pearson, Handbook of Lattice Spacings and Structures of Metals and Alloys, Vol 2, Pergamon, New York, 1967
- [Pearson3]: P. Villars and L.D. Calvert, Pearson's Handbook of Crystallographic Data for Intermetallic Phases, Vol 1, 2, and 3, American Society for Metals, Metals Park, OH, 1985
- [Pearson4]: P. Villars and L.D. Calvert, Pearson's Handbook of Crystallographic Data for Intermetallic Phases, 2nd ed., Vol 1, 2, 3, and 4, ASM International, Materials Park, OH, 1991
- [Shunk]: F.A. Shunk, Constitution of Binary Alloys, Second Supplement, originally published by McGraw-Hill, reprinted and available from Genium Publishing, Schenectady, NY, 1969