



Phase Diagrams of Dilute Binary Alloys

Hiroaki Okamoto

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In this volume, regarded as a supplement to the Desk Handbook: Phase Diagrams for Binary Alloys published in 2000, the editor has included all the information available on limited solubility in every binary system. While the smaller format of the desk handbook served well in providing overall information, the range of dilute solution covered in Phase Diagrams of Dilute Binary Alloys is the narrow composition range that is difficult or impossible to read from the full 0-100 per cent diagram. During the editing process for the desk handbook, the editor regretted that detailed information, such as data on very limited solubility of one element in another element or binary compound, is often almost lost in the thickness of the frame line of the diagram or shown in such a narrow composition range that it is difficult to get meaningful information on the phase diagram with enough accuracy. It was estimated that there were several hundreds of such diagrams studied with special attention paid to limited solubility. In order not to lose this detailed information, this editor decided to set aside all the information available on limited solubility in every binary system. This handbook is a compilation of such information. In most cases, the range of a dilute solution covered in this handbook is simply the range in which the diagram is difficult or impossible to read from the full-scale version in the Desk Handbook: Phase Diagrams for Binary Alloys. It is arbitrarily assumed here that a phase diagram with a full-scale range up to approximately 10 at. per cent is difficult to read when it is shown compressed in a 0-100 at. per cent complete diagram. Therefore, all diagrams assembled in this handbook were adopted from partial diagrams with composition ranges less than 10 at. per cent. These were selected from published diagrams, which were determined experimentally or by calculation with special interest in this limited solution range. No diagrams in this handbook are simple enlargements of a full-size (0-100 at. per cent) diagram.

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