

The Metals & Alloys Index Book for Materials Research

Materials researchers will find this new metallurgical book invaluable in their studies; its organization, selection of materials and use of alphabetical formulae is similar to that of Pearson and Villars and Calvert. The 1990 Metals & Alloys Index Book is designed to be used independently or in conjunction with the Powder Diffraction File (PDF). There are four indexes: the first two provide all materials in the Metals and Alloys PDF and the remaining two contain supporting data.

- **The Alphabetical Formula Index** brings together all entries containing a given element in alphabetical formula order. It has n entries for an n-component material and, to simplify reading the index, a straight-line format for the element being sorted. Chemical knowledge can thus be used to make identification easier.
- The Pearson Symbol Code Index has all entries arranged in Pearson Symbol order. Hence, the user can easily find all of the materials with a given structure, and, if desired, compare their atomic contents and lattice parameters. The latter are given for the standard Crystal Data setting to aid in structural comparisons.
- **The Common Names Index** permits cross-referencing of common metallurgical names such as austenite or cementite to the appropriate PDF data. It also has the cross-references for many mineral names that have found their way into metallurgical usage. Certain other useful names (*e.g.* Zintl phases) may also be found here.
- The Strukturbericht Symbol Index provides cross-referencing between Strukturbericht Symbols and the equivalent Pearson Symbols and Structure Prototypes. This index includes those structures for which Strukturbericht Symbols have been assigned and which are likely to be encountered in the metallurgical literature.

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