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Metal Alloys, Substitutional Alloys and Interstitial Alloys, Chemistry, Basic Introduction

In 1926 Hume Rothery discovered that for some simple alloys the electron to atom ratio e/a is a stability determining factor. We applied this energy band effect or Hume-Rothery rule to the quasicrystalline series $Al_{80}Mn_{20-x}Fe_x$. The isomer shift of the Mössbauer spectra shows a maximum at $x=9$, where $e/a=1.76$.

The structure of metals and alloys (Book, 1956) [WorldCat.org]

The awardee participates with the Alloy Phase Committee in organizing this symposium held in conjunction with the TMS Annual Meeting approximately two years following selection. This award honors the memory of the great pioneer in alloy phases, William Hume-Rothery and it consists of an engraved plaque. It is considered a pinnacle award.

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Solid Solutions: The Hume-Rothery Rules

The Structure of Metals and Alloys By Dr. William Hume-Rothery. (Monograph and Report Series No. 1.) Pp. 120 + 4 plates. ... The Structure of Metals and Alloys By Dr. William Hume-Rothery. ...

Hume-Rothery rules, named after William Hume-Rothery, are a set of basic rules that describe the conditions under which an element could dissolve in a metal, forming a solid solution. There are two sets of rules; one refers to substitutional solid solutions, and the other refers to interstitial solid solutions.

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Hume-Rothery rules. 1. Three types of metals. 2. Alloys. Hume-Rothery rules. 3. Electrical resistance of metallic alloys. 4. Applications of metallic alloys. 5. Steels. Super alloys. 6. Electromigration in thin wires. Three types of metals Metals share common features that define them as a separate class of materials: • Good thermal and ...

William Hume-Rothery OBE FRS (15 May 1899 – 27 September 1968) was an English metallurgist and materials scientist who studied the constitution of alloys.

The structure of metals and alloys : Hume-Rothery, William ...

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Hume-Rothery (1899-1968) was a metallurgist who studied the alloying of metals. His research was conducted at Oxford University where in 1958, he was appointed to the first chair in metallurgy. His research led to some simple and useful rules on the extent to which an element might dissolve in a metal [1-4].

The William Hume-Rothery Award is one of the highest awards of the materials science and engineering profession in the area of metals. Zhao was recognized "for development of groundbreaking methodologies for systematic measurements of phase-based properties for the understanding of a very large number of alloy systems."

While developing alloys, it is desired to increase its strength by adding metals that will form a solid solution. In the choice of such alloying elements, a number of . Solid Solutions: The Hume-Rothery Rules Hume-Rothery () was a metallurgist who studied the alloying of metals.

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The journal was established by William Hume-Rothery in 1958 as the Journal of the Less-Common Metals, focussing on the chemical elements in the rows of the periodic table for the Actinide and Lanthanide series. The lanthanides are sometimes referred to as the rare earths.

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