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

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William Hume-Rothery - Wikipedia  
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This chemistry video tutorial provides a basic introduction into metal alloys. It discusses two types of metal alloys - substitutional alloys and interstitial alloys. Zinc combines with Copper to ...  
**Metal Alloys, Substitutional Alloys and Interstitial Alloys, Chemistry, Basic Introduction**  
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].

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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.

Hume-Rothery rules - Wikipedia  
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.  
*The structure of metals and alloys [by] William Hume ...*  
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Metals And Alloys Hume Rothery

**The structure of metals and alloys (Book, 1956) [WorldCat.org]**  
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.  
**Solid Solutions: The Hume-Rothery Rules**  
Hume-Rothery Rule 3: Valency Rule . A metal will dissolve a metal of higher valency to a greater extent than one of lower valency. The solute and solvent atoms should typically have the same valence in order to achieve maximum solubility. Hume-Rothery Rule 4: The Electronegativity Rule . Electronegativity difference close to 0 gives maximum ...

**The structure of metals and alloys : Hume-Rothery, William ...**  
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 ...  
*HUME ROTHERY RULES PDF - Ueba*  
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.  
Journal of Alloys and Compounds - Wikipedia  
The structure of metals and alloys. [William Hume-Rothery; Geoffrey Vincent Raynor] Home. WorldCat Home About WorldCat Help. Search. Search for Library Items Search for Lists Search for ... Hume-Rothery, William, 1899-Structure

of metals and alloys. London, The Institute of Metals, 1956 (OCoLC)743267588: Document Type: Book:  
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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.

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. ...  
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