

Elements Of Metallurgy And Engineering Alloys

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He worked in the engineering laboratories, manufacturing research and development, as well as engineering on four production aircraft programs, and in production operations. He has written or edited many books for ASM International, including Structural Composite Materials, Elements of Metallurgy and Engineering Alloys , and several titles in the Understanding the Basics series.

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Abstract. When a metal is alloyed with another metal, either substitutional or interstitial solid solutions are usually formed. This chapter discusses the general characteristics of these solutions and the effects of several alloying elements on the yield strength of pure metals. It presents four rules that give a qualitative estimate of the ability of two metals to form substitutional solid solutions: relative size factor, chemical affinity factor, relative valency factor, and lattice type ...

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The metallic bond yields three physical characteristics typical of solid metals: (1) metals are good conductors of electricity, (2) metals are good conductors of heat, and (3) metals have a lustrous appearance.

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Elements Of Metallurgy And Engineering Alloys

Metallurgy is generally dealt with by material scientists and material engineers, who study the physical and chemical behavior of metallic elements, their intermetallic compounds and their mixtures, which are referred to as alloys. Metallurgy can also be described as the technology of metals, the way in which science is applied to the production of metals and the engineering of metal components for use in products for manufacturers and consumers.

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