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DEFINITION: An alloy is a metal (parent metal) combined with other substances (alloying agents), resulting in superior properties such as; strength, hardness, Page 16/25. Read Free Structure Properties Of Engineering Alloys 2nd Editiondurability, ductility, tensile strength and toughness.

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Description : Magnesium and magnesium alloys provide unique properties for engineering applications. Magnesium alloys are popular as a structural material because of their combination of light weight and strength. They are desirable for portable tools, appliances, electronic devices, airplanes, space vehicles, and land transportation.

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The different alloy systems will be studied to understand the distinction and application of heat treated vs. non heat treated aluminum alloys. Prerequisites: Introductory undergraduate courses in materials science, chemistry and physics.

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Textbooks: William F. Smith, Structure and Properties of Engineering Alloys, McGraw-Hill, 2nd ed., 1993 George Krauss, Heat Treatment and Processing Principles, ASM, Materials Park, Ohio, 1990. Prepared by: Arun M. Gokhale Topics Covered: The course will emphasize the basic elements of processing and properties

MSE 4006: Processing and Applications of Engineering ...

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