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derived either from nature or synthesized in a laboratory using a variety of chemical approaches using metallic components, polymers, bioceramics, or composite materials.

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Scientists are also capable of synthesizing heavier “artificial” elements in nuclear laboratories, all of which are radioactive and decay quickly.

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As the phases changed,
so did the physical
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material. Important elements of modern materials science are a product of the space race: the understanding and engineering of the metallic alloys, and silica and carbon materials, used in the construction of space exploration vehicles.

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Simple English

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Author(S) Lawrence H.

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Thus modern materials engineering involves exploitation of relationships among the four basic elements of the field—structure and composition, properties, synthesis and processing, and performance (i.e., the elements shown schematically in Figure

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1.10), basic science, and industrial and broader societal needs.

*1. What is Materials
Science and
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...

Materials science teaches us what things are made of and why they behave as they do. Materials engineering shows us how to apply

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knowledge to make better things and to make things better. Materials science and engineering drives innovation in both research and industry in everything from aerospace to medicine.

*What is materials science and engineering? |
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Elements of Materials Science And Engineering By Van Vlack is a book that that has created generations of successful engineers Reviewed in the United States on September 8, 2013

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the structure of the
material can lead to a
change in properties.

*Virtual Experiments /
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Elements of materials
science and engineering,
6th edition by Lawrence
H. Van Vlack, January
1996, Addison Wesley
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Engineering (January ...

The book's new organization emphasizes the generic nature of engineering materials in phenomenon and function and acknowledges traditional classes of materials in the process.

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*Elements of Materials
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Metals and Alloys ?

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These include steels, aluminum, magnesium, zinc, cast iron, titanium, copper, and nickel. ? In general, metals have good electrical and thermal conductivity. ? Metals and alloys have relatively high strength, high stiffness, ductility or formability, and shock resistance. ? They are particularly useful for structural or load

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