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products and systems  
and monitor their use

- Every product is made of materials and energy is involved in production and in use. • This is why all Engineers have to study materials

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Wesley Publication €  
Date 1980 Edition €  
4th.ed. Physical  
Description XVII,  
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Engineering Subject

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properties  
performance With  
regard to the  
relationships of these  
four components, the  
structure of a

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Material will depend  
on how it is  
processed.  
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Introduction to  
Materials Science &  
Engineering  
Thus modern  
materials engineering  
involves exploitation  
of relationships  
among the four basic  
elements of the

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field—structure and composition, properties, synthesis and processing, and performance (i.e., the elements shown schematically in Figure 1.10), basic science, and industrial and broader societal needs.



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Materials scientists  
work with diverse  
types of materials  
(e.g., metals,  
polymers, ceramics,  
liquid crystals,  
composites) for a  
broad range of  
applications (e.g.,  
energy, construction,

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electronics,  
biotechnology,  
nanotechnology)  
employing modern  
processing and  
discovery principles  
(e.g., casting, additive  
manufacturing,  
coating, evaporation,  
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processing, artificial  
intelligence, and  
computer  
simulations).

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Science and

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The material of  
choice of a given era  
is often a defining  
point. Phrases such as  
Stone Age, Bronze  
Age, Iron Age, and  
Steel Age are historic,  
if arbitrary examples.

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Engineering of the  
metallic alloys, and  
silica and carbon  
materials, used in the  
construction of space  
exploration vehicles.

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Wikipedia, the free ...  
The science of  
materials engineering  
examines the

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connection between  
the structures of  
materials at  
molecular scales and  
their macroscopic  
characteristics. The  
materials engineering  
is a broad based  
science that includes  
essentials of  
chemistry, physics,  
mechanical, and civil  
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soft condensed matter (polymers, colloids, liquid crystals, amphiphiles, gels and biomaterials) and will cover general aspects of chemistry, structure, properties and applications with emphasis on chemistry and forces related to molecular self-assembly.

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Materials Science and  
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elements from a variety of engineering disciplines, and the demand for professionals in the field is strong.

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