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

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to produce a predetermined set of
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Elements of materials science and
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H. Van Vlack, January 1996, Addison

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Language English Title ELEMENTS
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H. Van Vlack Publication Data
Reading: Addison-Wesley Publication€
Date 1980 Edition € 4th.ed. Physical
Description XVII, 557p Subject
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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

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the construction of space vehicles
enabling the exploration of space.

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It is fundamental to all other science
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silica and carbon materials, used in the construction of space exploration vehicles.

~~Materials science - Simple English
Wikipedia, the free ...~~

The Elements of Polymer Science and Engineering, Third Edition, is a

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textbook for one- or two-semester introductory courses in polymer science and engineering taught primarily to senior undergraduate and first-year graduate students in a variety of disciplines, but primarily chemical engineering and materials science. Since the publication of the

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second edition in 1999, the field of polymers has advanced considerably.

~~The Elements of Polymer Science & Engineering | ScienceDirect~~

The intellectual origins of materials science stem from the Enlightenment, when researchers began to use

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analytical thinking from chemistry, physics, and engineering to understand ancient, phenomenological observations in metallurgy and mineralogy. Materials science still incorporates elements of physics, chemistry, and engineering. As such, the field was long considered by

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academic institutions as a sub-field of these related fields.

~~Materials science - Wikipedia~~

Materials Science and Engineering: An Introduction promotes student understanding of the three primary types of materials (metals, ceramics,

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fundamental understanding of how the

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