

Chapter 1: Introduction to Materials Science and Engineering

1-1 Define materials science and engineering (MSE).

Solution:

Materials science and engineering (MSE) is an interdisciplinary field that studies and manipulates the composition and structure of materials across length scales to control materials properties through synthesis and processing.

1-2 What is the importance of the engineering tetrahedron for materials engineers?

Solution:

Structure, properties and performance all depend on the route in which a material is processed. We cannot predict the end properties for a material until we have specified a process to produce the component. Using the same material, but changing the way it is processed will result in different structure, properties and performance of that material. This is applicable to all material systems.

1-3 Define the following terms:

- (a) composition;
- (b) structure;
- (c) synthesis;
- (d) processing; and
- (e) microstructure.

Solution:

- (a) The chemical make-up of a material.
- (b) The arrangement of atoms, seen at different levels of detail.
- (c) How materials are made from naturally occurring or man-made chemicals.
- (d) How materials are shaped into useful components.
- (e) The structure of an object at the microscopic scale.

1-4 Explain the difference between the terms materials science and materials engineering.

Solution:

Materials scientists work on understanding underlying relationships between the synthesis and processing, structure, and properties of materials. Materials engineers focus on how to translate or transform materials into useful devices or structures.

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