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solids are common. Even pure metals such as titanium, carbon, tin and iron exist in different crystal structures, or phases, depending upon their temperature and other environmental factors such

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transformation as well as the transformation rate are important to develop a specific microstructure which in turn affect the mechanical properties of materials. For example, the

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tensile strength of Fe-C eutectoid alloy can be 700 MPa to 2000 MPa depending on heat treatment condition.

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