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# Crystal structure of metals

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There are five main types of crystal structure arrangements which determine their properties and behaviors. These arrangements are: Simple Cubic, Body-Centered Cubic, Face-Centered Cubic, Hexagonal Closest-Packed and Cubic Closest-Packed.

Many metals characteristics can be attributed to these crystal structure arrangements. We can cite: strength, hardness, conductivity, elasticity, plasticity and malleability, etc.