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The classification of materials is based on the atomic structures and on the nature of bonds: metals and their alloys (metallic bonding), organic polymers (covalent bonding and secondary bonding), and ceramics (ionic bonding and covalent bonding). The chapter describes that the ceramic materials are especially known for their fireproof character.

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Introduction to Materials Science and Engineering provides balanced, current treatment of the full spectrum of engineering materials, covering all the physical properties, applications and relevant properties associated with engineering materials. It explores all of the major categories of materials while also offering detailed examinations of a wide range of new materials with high-tech applications.

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