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Materials science or materials engineering is an interdisciplinary field involving the properties of material (matter) and its applications to various areas of science and engineering. This science investigates the relationship between the composition (including structure of materials at atomic or molecular scales) and their macroscopic properties.

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The roles of bonding, structure (crystalline, defect, energy band and microstructure) and composition in influencing and controlling physical properties are discussed. Also included are case studies drawn from a variety of applications: semiconductor diodes and optical detectors, sensors, thin films, biomaterials, composites and cellular materials, and others.

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