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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

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A single semiconductor crystal can have many p- and n-type regions; the p-n junctions between these regions are responsible for the useful electronic behavior. Some of the properties of semiconductor materials were observed throughout the mid 19th and first decades of the 20th

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## Electronic Properties of Engineering Materials (1)

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