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~~Lecture 39: Electrical and magnetic properties~~
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Lecture 8: Electrical properties of materials Simulating Electronic Properties of Materials Using Ab Initio Modeling Tools ENGR 313 — 02.02 Electronic Properties of Materials

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Many of the electronic properties of materials, such as optical, electrical, or magnetic properties, are related to

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the location of E_F within a band. The Fermi energy is often defined as the “ highest energy that the electrons assume at $T \rightarrow 0 \text{ K}$ ” .

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This text on the electrical, optical, magnetic, and thermal properties of materials stresses concepts rather than mathematical formalism. Suitable for advanced undergraduates, it is intended for materials and electrical engineers who want to gain a fundamental understanding of alloys, semiconductor

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2.2 Electrical conduction The resistivity of aluminum at 25 ° C has been measured to be 2.72×10^{-8} m.

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The thermal coefficient of resistivity of aluminum at 0 °C is $4.29 \times 10^{-3} \text{K}^{-1}$. Aluminum has a valency of 3, a density of 2.70 g cm^{-3} , and an atomic mass of 27. a.

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Electronic Materials Solutions

Book Description. Electronic materials provide the basis for many high tech industries that have changed rapidly in recent years. In this fully revised and updated second edition, the author discusses the range of available materials and their technological applications. Introduction to the Electronic Properties of Materials, 2nd Edition presents the principles of the behavior of electrons in materials and develops a basic understanding with minimal technical detail.

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