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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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Materials ...

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Materials. It includes both chemical and physical approaches to the properties of solids, and clearly separates those aspects of materials properties that can be tackled with classical physics from those that require quantum mechanics. It includes both chemical and physical approaches to the properties...

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Syllabus | Electronic, Optical and  
Magnetic Properties of ...

This book on electrical, optical, magnetic, and thermal properties of materials differs from other introductory texts in solid-state physics. First, it is written for engineers, particularly materials and electrical engineers, who want to gain a fundamental understanding of semiconductor devices, magnetic materials, lasers, alloys, and so forth.

Electrical Properties of Engineering  
Materials | Electrical4U

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

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applications: semiconductor diodes and optical detectors, sensors, thin films, biomaterials, composites and cellular materials, and others.

Wiley: Electronic Properties of Engineering Materials ...

Livingston helps make the complex concepts behind the electronic properties of materials much more accessible for students. His very readable writing style and clear organization help to make the key topics much easier to understand.

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Electronic Properties of Materials: Rolf E. Hummel ...

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This book on electrical, optical, magnetic, and thermal properties of materials differs from other introductory texts in solid-state physics. First, it is written for engineers, particularly materials and electrical engineers, who want to gain a fundamental understanding of semiconductor devices, magnetic materials, lasers, alloys, and so forth.

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Materials Solution ...

Electrical properties of materials

NINTHEDITION L. Solymar

Department of Electrical and Electronic  
Engineering Imperial College, London

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Materials engineering | Engineering |  
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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 century.

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Materials

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## Electronic Properties of Engineering Materials (1)

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## Classification of Engineering Materials | Electrical4U

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Materials by James D ...

James Livingston has written a highly readable undergraduate text introducing the physics and chemistry underlying the electronic properties of

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engineering solids. The first half of the text uses a semi-classical approach, while the second half introduces quantum mechanics and applies quantum chemistry and quantum physics to the basic properties of metals, insulators, and semiconductors.

Electronic and Mechanical Properties of Materials ...

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