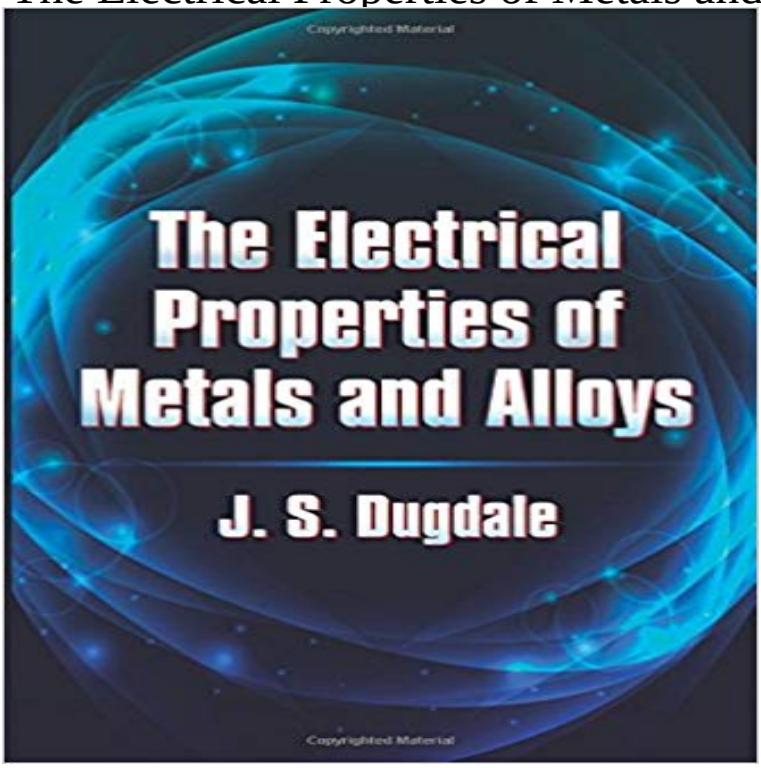
The Electrical Properties of Metals and Alloys (Dover Books on Physics)



Suitable for advanced undergraduate and graduate students of physics, this classic volume by a prominent authority in the field provides an account of some simple properties of metals and alloys associated with electron transport. Introductory chapters examine the bulk properties of electrical resistivity, the Hall coefficient, and thermoelectric power.Author J. S. Dugdale establishes a picture of the current-carrying state of a solid and the associated electron energy states before exploring how departures from crystal perfection scatter electrons. Static imperfections and lattice vibrations receive detailed explanations before the text advances to complex scattering. Emphasis on the behavior of real materials provides readers with a physical understanding of transport properties of transition metals, resistance, and thermoelectric anomalies in dilute magnetic alloys and transport in concentrated alloys and compounds.

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