

2.1 Ohm's Law and Theory of Charge Transport

2.1.1. Ohms Law and Materials Properties

2.1.2 Ohms Law and Classical Physics

2.1.3 The Hall Effect

2.1.4 Summary to: Conductors - Definitions and General Properties

2.2 Materials and Conductivity

2.2.1 Metals

2.2.2 Alloys

2.2.3 Non-Metalic Conductors

2.2.4 Summary to: Conductors - Definitions and General Properties

2.3. General Applications

2.3.1 Normal Conductors

2.3.2 Contacts

2.3.3 Resistors and Heating

2.3.4 Summary to: Conductors - General Applications

2.4. Special Applications

2.4.1 Thermionic Emission

2.4.2 Field Enhanced Emission and Tunnelling Effects

2.4.3 Thermoelectric Effects

2.4.4 Summary to: Conductors - Special Applications

2.5 Ionic Conductors

2.5.4 Summary to: Ionic Conductors

2.6 Summary: Conductors