

SOLID STATE PHYSICS

Structure and
Properties of Materials

Third Edition



M. A. Wahab



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Gerald Burns



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current generates into them which dissipates energy These losses can be reduced by lamination of ferrimagnetic core to restrict eddy current Since eddy current losses are inversely proportional to the resistivity they can be minimized by use of magnetic materials of high resistivity Ferrites having resistivity of up to 10^7 m as compared to 10^{-7} m of iron reduces the eddy current losses in them to a negligible value even at microwave frequencies

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Carbon for Sensing Devices Danilo Demarchi, Alberto Tagliaferro, 2014-10-07 This book reveals why carbon is playing such an increasingly prominent role as a sensing material The various steps that transform a raw material in a sensing device are thoroughly presented and critically discussed The authors deal with all aspects of carbon based sensors starting from the various hybridization and allotropes of carbon with specific focus on micro and nano sized carbons e g carbon nanotubes graphene and their growth processes The discussion then moves to the role of functionalization and the different routes to achieve it Finally a number of sensing applications in various fields are presented highlighting the connection with the basic properties of the various carbon allotropes Readers will benefit from this book s bottom up approach which starts from the local bonding in carbon solids and ends with sensing applications linking the local hybridization of carbon atoms and its modification by functionalization to specific device performance This book is a must have in the library of any scientist involved in carbon based sensing application

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Seitz,1974 Solid State Physics Simon Fraser University Summer School on Solid State Physics,1968 **Solid State**
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