



Magnetic Materials

By Rainer Hilzinger, Werner Rodewald

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At a practical level, this compendium reviews the basics of soft and hard magnetic materials, discusses the advantages of the different processing routes for the exploitation of the magnetic properties and hence assists in proper, fail-safe and economic application of magnetic materials. Essential guidelines and formulas for the calculation of the magnetic and electrical properties, temperature and long-term stability of permanent magnets, of inductive components and magnetic shielding are compiled. Selected fields of application and case studies illustrate the large diversity of technical applications. Application engineers will appreciate the comprehensive compilation of the properties and detailed characteristic curves of modern soft and hard magnetic materials. Materials scientists will enjoy the presentation of the different processing routes and their impact on the magnetic properties and students will profit from the survey from the basics of magnetism down to the applications in inductive components, magnetic shielding and magnet assemblies.

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Editorial Review

Review

“It will be a very handy reference book when solving magnetic circuit design problems. Materials scientists will also appreciate the detailed information on the effects of processing techniques on magnetic properties.”
(*IEEE Electrical Insulation Magazine*, 1 September 2013)

From the Back Cover

At a practical level, this book reviews the basics of soft and hard magnetic materials, discusses the advantages of the different processing routes for the development of their magnetic properties, and hence assists in their optimized and economic application. Essential guidelines and formulae are compiled for the calculation of magnetic and electrical properties. Selected examples and case studies illustrate the large diversity of technical applications. Materials scientists will benefit from the description of the different processing routes and their impact on the magnetic properties. Application engineers will appreciate the comprehensive and detailed properties and characteristic curves of modern soft and hard magnetic materials. Student will profit from the survey of the basics of magnetism through to the application areas of inductive components, magnetic shielding and magnet assemblies.

About the Author

DR. RAINER HILZINGER former Chief Technology Officer and Development Director at VACUUMSCHMELZE, is a Member of the American Physical Society and the German Physical Society. He has published more than 65 scientific publications and is the holder of a number of patents. He was awarded the Georg-Sachs-Prize by the German Society for Materials Science (DGM) in 1983. Under his direction, many new materials have been developed and brought into commercial application.

DR. WERNER RODEWALD former Head of Fundamental Research and Development of Rare-Earth permanent magnet materials at VACUUMSCHMELZE, is also a Member of the German Physical Society. Until 2005, he was member of the IEC Technical Committee TC68-WG5, which compiles standards and measuring methods for permanent magnets. In addition, he has managed national and international projects with partners from universities and industry and has published many technical articles.

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