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A guide to permanent-magnet property selection and design in magnetoelectric devices. Provides a unified and comprehensive treatment of permanent magnetism, from its origins to its

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use in modern energy-conversion devices. Presents the history of permanent magnetism and describes the properties of permanent-magnet systems, emphasizing the new ...

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Advances in Permanent Magnetism - Rollin J. Parker ...

In this chapter, we review recent advances in Nd-Fe-B based permanent magnets that have been made in the last 10 years

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with a historical review of the early developments of Nd-Fe-B magnets in the 1980s. The basic technology in the commercial production of Nd-Fe-B permanent magnets was established within a decade after its invention in 1983.

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Advances in Nd-Fe-B Based Permanent Magnets - ScienceDirect

The main advantage of permanent magnets (PMs) is that they do not waste power as heat to create a magnetic field. PMs

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Magnets are candidates to replace any room temperature DC electromagnet (EM) in accelerator or free-electron laser (FEL) systems.

**Permanent Magnets - an
overview | ScienceDirect**

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Where To Download Advances In Permanent Magnetism **Topics**

Equally important has been the recent development of rare-earth permanent magnets. Advances in rare-earth magnet materials have revolutionized the field of magnetic separation. The advent of rare-earth permanent magnets

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Magnets
in the 1980's provided a magnetic energy product an order of magnitude greater than that of conventional ferrite magnets.

Magnetic Separators - 911 Metallurgist

Emergent applications of

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Magnets in renewable energy have come to the landscape recently, for instance the large-scale applications in electrical vehicles and wind turbines. It has been proved that traction motors and wind turbine generators using permanent

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magnets are more energy efficient compared with other options.

Advances in nanostructured permanent magnets research

"Magnetic fluids can be used, for example, in surgery. If a magnetic

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fluid is injected into a vein or artery, and a permanent magnet is located in the place of the incision, a "plug" of the ...

Scientists take a step towards expanding the use of ...

Permanent magnets are also

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highlighted as paradigmatic examples of the close relationship between basic research industry and technological implementation, as basic research advances may be directly transitioned to realization of better magnets with enhanced

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Advanced Permanent Magnetic Materials

Recent constraints on availability and cost increase of rare-earth (RE) elements have stimulated a strong interest in the discovery of

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rare-earth-free materials with excellent permanent-magnet properties. Materials having energy products between alnico and Nd₂Fe₁₄B, in the range of 15 to 25 MGOe, would have important applications in energy conversion technologies.

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Advances in rare-earth-free permanent magnets — Research ...

Advances in Magnetic Materials:
Processing, Properties, and
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Magnetism, including fabrication,
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in the aerospace, biomedical, and
semiconductors industries.

**Advances in Magnetic
Materials | Taylor & Francis
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Magnetism
Advances in permanent magnetism This edition published in 1990 by Wiley in New York.

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Advances in Magnetic Materials:

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Processing, Properties, and Performance discusses recent developments of magnetic materials, including fabrication, characterization and applications in the aerospace, biomedical, and semiconductors industries.

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Advances in Magnetic Materials: Processing, Properties ...

Surface permanent magnet (SPM) motors – SPM motors (Figure 5) must operate on a VFD that is programmed to control the permanent magnet flux of the PM

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Magnetics synchronous motor. At least one manufacturer offers these motors in power ratings up to 3,350 hp, and in speed ranges of 0-220 rpm up to 0-600 rpm.

**Why permanent magnet
motors and reluctance motors**

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Recent advances in applying MNPs as contrast agents in Magnetic Resonance Imaging (MRI) and as tracer materials in Magnetic Particle Imaging (MPI) are reviewed. In addition, the development of high...

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Magnetism, from its origins to its use in modern energy-conversion devices. Presents the history of permanent magnetism and describes the properties of permanent-magnet systems, emphasizing the new rare earth magnets. Covers all major types

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of permanent magnets and their typical applications, aspects of design, circuit solutions, device parameters and measurements.

Modern Permanent Magnets provides an update on the status and recent technical

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Magnetics developments that have occurred in the various families of permanent magnets produced today. The book gives an overview of the key advances of permanent magnet materials that have occurred in the last twenty years. Sections cover the history

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of permanent magnets, their fundamental properties, an overview of the important families of permanent magnets, coatings used to protect permanent magnets and the various tests used to confirm specifications are discussed.

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Finally, the major applications for each family of permanent magnets and the size of the market is provided. The book also includes an Appendix that provides a Glossary of Magnetic Terms to assist the readers in better understanding the

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Magnets technical terms used in other chapters. This book is an ideal resource for materials scientists and engineers working in academia and industry R&D. Provides an in-depth overview of all of the important families of permanent magnets produced

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Magnets
today Includes background information on the fundamental properties of permanent magnets, major applications of each family of permanent magnets, and advances in coatings and coating technology
Reviews the fundamentals of

Where To Download Advances In Permanent Magnetism permanent magnet design

One of the first books to approach magnetism from a metal physics perspective, Permanent Magnetism presents research

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ideas that are being translated into commercial reality for ferrite and Nd-Fe-B magnets, and follows the discovery of interstitial, intermetallic materials. Written by well-known authors, the book contains a comprehensive yet concise treatment of the

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Magnetism fundamental theory underlying permanent magnetism and illustrates applications with modern, permanent magnetic materials, including ceramics and intermetallic compounds. Each chapter contains worked examples to reinforce

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Magnetics applications and the appendices include detailed mathematics and tabular data on material properties.

This book is a comprehensive design text for permanent magnets and their application.

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Magnets are very important industrially, and are widely used in a variety of applications, including industrial drives, consumer products, computers and cars. In the early 1970s a new class of magnet - the rare earths - was discovered,

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Magnetism
the properties of which showed sustained improvement over the following two decades. New materials such as these have spawned many new markets for magnets, with significant performance gains in the devices for which they are used. Until

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Magnetism, however, there has been no text that unified all the relevant information on the wide range of modern permanent magnet materials. This book is a comprehensive review of the technology, intended for scientists and engineers involved

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Magnetism
in all stages of the manufacture,
design and use of magnets.

Magnetic Nanostructured
Materials: From Lab to Fab
presents a complete overview of
the translation of nanostructured
materials into realistic

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Magnetics, drawing on the most recent research in the field to discuss the fundamentals, synthesis and characterization of nanomagnetics. A wide spectrum of nanomagnetic applications is included, covering industrial, environmental and biomedical

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fields, and using chemical, physical and biological methods. Materials such as Fe, Co, CoxC, MnGa, GdSi, ferrite nanoparticles and thin films are highlighted, with their potential applications discussed, such as magnetic refrigeration, energy harvesting,

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magnetic sensors, hyperthermia, MRI, drug delivery, permanent magnets, and data storage devices. Offering interdisciplinary knowledge on the materials science of nanostructured materials and magnetics, this book will be of interest to

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researchers in materials science, engineering, physics and chemistry with interest in magnetic nanomaterials, as well as postgraduate students and professionals in industry and government. Provides interdisciplinary knowledge on

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methods for magnetic
nanomaterials Includes examples
of real applications Shows how

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laboratory work on magnetic nanoparticles connects to industrial implementation and applications

Permanent magnet materials capable of operating at high temperatures (equal or greater

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than 400 deg C) are required for advanced aerospace power systems. Prior to the UDRI AMPS team's successful program, the best available high temperature permanent magnets could not operate above 300 deg C. The problem for higher temperature

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Magnetism has been that the strength of conventional magnets, as characterized by their intrinsic coercivity (MHc) drops sharply upon heating. The MHc of the best 2:17 rare earth-transition metal permanent magnets previously available

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Magnetics
drops from 20 to 30 kOe at room temperature to only 1 to 3 kOe at 500 deg C. This also results in nonlinear 2nd-quadrant induction demagnetization curves (B curves) at temperatures above 200 to 300 deg C. A linear B curve is critical in all dynamic

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Magnetics applications such as in generators and motors. The UDRI AMPS team also proposed a new theory of coercivity mechanisms in permanent magnet materials based on this breakthrough result. This new theory explains the variations in the temperature

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dependencies of coercivity and provides important guidance to the R&D of new magnetic materials. In addition, EEC has successfully commercialized the new high temperature permanent magnets. These advances represent a major breakthrough

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in high temperature permanent
magnet materials.

Advances in Magnetic Materials:
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developments of magnetic
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and performance

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aspects of process, properties,
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Rare Earth Permanent Magnets presents the discussion of the metallurgy and properties of rare earth permanent magnet alloys. The monograph initially provides

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the elementary aspects of magnetism to enable the reader sufficient understanding of permanent magnetism. The book then discusses the rare earth elements and their alloys with cobalt, copper, and iron; the magnetic properties of various

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Magnetism intermetallic compounds relevant to permanent magnets; a detailed account of cast permanent magnets of the Co-Cu-Sm and Co-Cu-Ce systems and their modifications; the important methods of making and manufacturing rare earth

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permanent magnets by powder metallurgy methods; and comparisons between the well-known permanent magnets and the new rare earth materials. This text will be of value to students, materials engineers, and scientists.

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