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Advances In Permanent Magnetism

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

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

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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.

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

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

Magnetic Separators - 911Metallurgist

Emergent applications of permanent 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

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permanent 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 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 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 technical performance.

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 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.

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

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

Advances in Magnetic Materials | Taylor & Francis Group

Advances in permanent magnetism This edition published in 1990 by Wiley in New York.

Advances in permanent magnetism (1990 edition) | Open Library

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

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 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 are ...

Recent advances in applying MNPs as contrast

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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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