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Lecture 1.1. - Magnetism in everyday life

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Page 19/33

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 Page 20/33

replace any room temperature DC electromagnet (EM) in accelerator or freeelectron laser (FEL) systems.

Permanent Magnets - an overview | ScienceDirect Topics Equally important has been the recent development of rare-earth permanent Page 21/33

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 permanent Page 23/33

magnets are more energy ef?cient 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 Page 24/33

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 Page 25/33

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
Page 26/33

stimulated a strong interest in the discovery of rare-earth-free materials with excellent permanent-magnet properties. Materials having energy products between alnico and Nd 2 Fe 14 B, in the range of 15 to 25 MGOe. would have important applications in energy conversion technologies. Page 27/33

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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 synchronous motor. At least one manufacturer offers these motors in power ratings up to Page 31/33

3,350 hp, and in speed ranges of 0-220 rpm up to 0-600 rpm.

Why permanent magnet motors and reluctance motors are

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Recent advances in applying MNPs as contrast agents in Magnetic Resonance Imaging (MRI) and as tracer materials in Page 32/33

Magnetic Particle Imaging (MPI) are reviewed. In addition, the development of high...

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