

## The Physics Of Ferromagnetism

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Ferromagnetism is a kind of magnetism that is associated with iron, cobalt, nickel, and some alloys or compounds containing one or more of these elements. It also occurs in gadolinium and a few other rare-earth elements. In contrast to other substances, ferromagnetic materials are magnetized easily, and in strong magnetic fields the magnetization approaches a definite limit called saturation.

Ferromagnetism | physics | Britannica

This book covers both basic physics of ferromagnetism such as magnetic moment, exchange coupling, magnetic anisotropy and recent progress in advanced ferromagnetic materials. Special interests are focused on NdFeB permanent magnets and the materials studied in the field of spintronics.

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Ferromagnetism is the basic mechanism by which certain materials form permanent magnets, or are attracted to magnets. In physics, several different types of magnetism are distinguished. Ferromagnetism is the strongest type and is responsible for the common phenomenon of magnetism in magnets encountered in everyday life. Substances respond weakly to magnetic fields with three other types of magnetism—paramagnetism, diamagnetism, and antiferromagnetism—but the forces are usually so weak ...

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Physics of Ferromagnetism (International Series of Monographs on Physics (94)) 2nd Edition. by Soshin Chikazumi (Author), C. D. Graham (Editor) 4.7 out of 5 stars 3 ratings. ISBN-13: 978-0198517764.

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Ferromagnetism is a physical phenomenon (long-range ordering), in which certain materials like iron strongly attract each other. Ferromagnets occur in rare earth materials and gadolinium. It is one of the common phenomena that is encountered in life that is responsible for magnetism in magnets.

~~Ferromagnetism—Definition, Applications, Antiferromagnetism~~

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Ferromagnetism, for example, results from an internal cooperative alignment of electron spins, possible in some materials but not in others. Crucial to the statement that electric current is the source of all magnetism is the fact that it is impossible to separate north and south magnetic poles.

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A ferromagnetic substance contains permanent atomic magnetic dipoles that are spontaneously oriented parallel to one another even in the absence of an external field. The magnetic repulsion between two dipoles aligned side by side with their moments in the same direction makes it difficult to understand the phenomenon of ferromagnetism.

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Ferromagnetism is a magnetically ordered state of matter in which atomic magnetic moments are parallel to each other, so that the matter has a spontaneous magnetization. Owing to ferromagnetism, some materials (such as iron) can be attracted by magnets or become the permanent magnets themselves.

~~Introduction to the Theory of Ferromagnetism | edX~~

This book covers both basic physics of ferromagnetism, such as magnetic moment, exchange coupling, magnetic anisotropy, and recent progress in advanced ferromagnetic materials. Special focus is placed on NdFeB permanent magnets and the materials studied in the field of spintronics (explaining the development of tunnel magnetoresistance effect through the so-called giant magnetoresistance effect).

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His theory is also named as domain theory of ferromagnetism. The domains are aligned along the direction of the applied magnetic field grow in size that is they align opposite to the field direction which gets reduced. In the presence of a weak external field, the magnetization in the material occurs mostly by the process of domain growing.

~~Explain ferromagnetism on the basis of domain theory?~~

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In a ferromagnet, the spins of electrons align, collectively generating a magnetic field. More specifically, metals such as iron, cobalt and nickel demonstrate itinerant ferromagnetism, which refers to the fact that their electrons can move around freely within the material.

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