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How Earth Creates Its  
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Summary This chapter

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Magnetic Moment and its

Energy in a Magnetic Field

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Types of Magnetic Materials.

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1 1 Fundamentals of

Magnetism Jun Yamauchi 1.1

Magnetism of Materials 1.1.1

Historical Background

Magnets play a crucial role

in a modern life; as we

know, a vast number of

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devices are employed in the electromagnetic industry. In ancient times human beings experienced magnetic phenomena by utilizing natural iron minerals, especially magnetite.

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61 Fundamentals of Magnetism attributed to whether or not the material possesses magnetic moments in atomic, ionic, and molecular states. Paramagnetic materials

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sometimes experience magnetic phase transitions at low temperatures. This means cooperative orderings of magnetic moments occur through exchange and dipolar interactions between them.

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Magnetism  $E = ? \text{ ?mB (1.5)}$  The  
SI unit of magnetic  
induction is T (tesla).  
1.1.3 Definitions of

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Magnetization and Magnetic Susceptibility Each magnetic moment of a molecular magnet, including atoms or ions, is accounted for as a whole by vector summation. This physical parameter needs a



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Magnetic relationships are  
given and an equation for

*Page 28/50*

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the inductance is derived.

The nature is governed by a set of laws. A subset of these laws is the physics electro?magnetic (EM) laws. The chapter then discusses the origin of the magnetic field. It is shown that

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covers basic concepts in  
magnetism; Firstly magnetic

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moment, magnetization and the two magnetic fields are presented. Internal and external fields are distinguished. Magnetic energy and forces are discussed.

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relationships are given and  
an equation for the  
inductance is derived. The  
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of laws. A subset of these laws is the physics electro?magnetic (EM) laws.

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last decade a tremendous

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progress has taken place in understanding the basis of magnetism, especially in reduced dimensions. In the first part, the fundamentals of magnetism are conveyed for atoms and bulk-like solid-state systems

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2. Magnetostatic Phenomena  
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Many electronic circuits  
require the use of inductors  
and transformers [1]-[47].

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These are usually the

largest, heaviest, and most expensive components in a circuit. They are defined by their elec-tromagnetic behavior. The main feature of an inductor is its ability to store magnetic

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energy in the form of a magnetic field.

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