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In the last decade a tremendous 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 providing a basis for the understanding of new phenomena which exclusively occur in low-dimensional systems as the giant magneto resistance. This wide field ...

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1 Fundamentals of Magnetic Devices - CORE

1.1.1 Typical Magnetic Nanomaterials 1.1.1.1 Magnetic Nanomaterials of Metal (Fe, Co, and Ni) Fe, Co, and Ni are three common ferromagnetic elements that serve as structural backbones for tons of magnetic materials in our modern life. The common magnetic properties of Fe, Co, and Ni are given in Table 1.1. Study on the

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Many electronic circuits require the use of inductors and transformers [1]–[47]. 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 energy in the form of a magnetic field.

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1.1 Introduction 1. 1.2 Foundations 3. 1.3 Medium Issues 8. 1.4 Photon Localization and Wavefunction 10. 1.5 The Quantum Vacuum and Virtual Photons 12. 1.6 Structured Light 15. 1.7 Photon Number Fluctuations and Phase 18. 1.8 The Reality of Photonics 20. Acknowledgments 20. References 20. 2 Coherence and Statistical Optics 27 Mayukh Lahiri. 2.1 ...

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FUNDAMENTALS OF MAGNETIC DEVICES 3 The MMF is analogous to the electromotive force (EMF) \mathcal{V} . It is a potential difference between any two points P 1 and P 2. $\oint \mathbf{H} \cdot d\mathbf{l} = I$ between any two points P 1 and P 2 is equal to the line integral of the electric field \mathbf{E} between these two points along any path $V = \int_{P2}^{P1} \mathbf{E} \cdot d\mathbf{l} = -\int_{P2}^{P1} \mathbf{H} \cdot d\mathbf{l} = \mathcal{V}$

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4 1 Fundamentals of Magnetism $E = -\int \mathbf{m} \cdot d\mathbf{l}$ (1.5) The SI unit of magnetic induction is T (tesla). 1.1.3 Definitions of 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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Modern Magnetic Magnetic Materials, Wiley, 2000, 740 pp Q & A format. •J. Stohr and H. C. Siegman Magnetism: From fundamentals to nanoscale dynamics Springer 2006, 820 pp. Good for spin transport and magnetization dynamics. Unconventional definition of \mathbf{M} • K. M. Krishnan Fundamentals and Applications of Magnetic Material, Oxford, 2017, 816 pp

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Magnetic relationships are given and an equation for 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 moving charges are sources of the magnetic field.

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