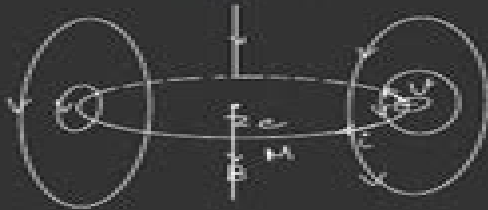


# Magnetic Properties of Matter

Lecture - 1

## Magnetic Moment of H-like atom



$$i = \frac{q}{T} = \frac{e v}{2 \pi r}$$

$$\vec{M} = \frac{q}{2m} \vec{L}$$

$$M = \frac{e}{2m} \frac{2\pi \hbar}{2\pi}$$

orbital magnetic moment

H-atom  $n=1$  & ground state

$$M_0 = \frac{e \hbar}{4 m \pi} = \text{Bohr magneton}$$

$$n=2 \quad M = 2 M_0$$

$$n=3 \quad M = 3 M_0$$

$$n=n \quad M = n M_0$$

→ apart from orbital motion of  $e^-$ , there is magnetic dipole moment due to spin

$$M_s = 9.285 \times 10^{-24} \frac{J}{T}$$



$$\underline{B=0}$$

$$M_{\text{atom}} = 0$$

$$M_{\text{Total}} = 0$$



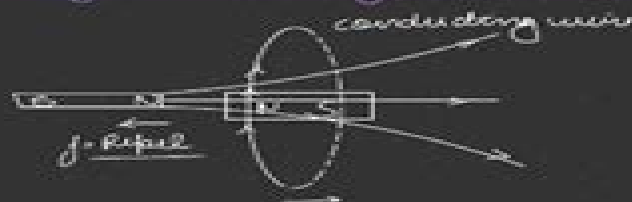
$$\underline{B=0}$$

$$M_{\text{atom}} \neq 0$$

$$M_{\text{Total}} = 0$$

Random

## Faradays Law of Induction



# Magnetic Properties Structure Of Matte

**N Noddings**



## **Magnetic Properties Structure Of Matte:**

**Characterization of Minerals, Metals, and Materials 2021** Jian Li, Mingming Zhang, Bowen Li, Sergio Neves Monteiro, Shadia Ikhmayies, Yunus Eren Kalay, Jiann-Yang Hwang, Juan P. Escobedo-Diaz, John S. Carpenter, Andrew D. Brown, Rajiv Soman, Alex Moser, 2021-02-16 The collection focuses on the advancements of characterization of minerals metals and materials and the applications of characterization results on the processing of these materials Advanced characterization methods techniques and new instruments are emphasized Areas of interest include but are not limited to Novel methods and techniques for characterizing materials across a spectrum of systems and processes Characterization of mechanical thermal electrical optical dielectric magnetic physical and other properties of materials Characterization of structural morphological and topographical natures of materials at micro and nano scales Characterization of extraction and processing including process development and analysis Advances in instrument developments for microstructure analysis and performance evaluation of materials such as computer tomography CT X ray and neutron diffraction electron microscopy SEM FIB TEM and spectroscopy EDS WDS EBSD techniques 2D and 3D modelling for materials characterization The book explores scientific processes to characterize materials using modern technologies and focuses on the interrelationships and interdependence among processing structure properties and performance of materials

**The Indomitable Chemist** Dr. Arvind Yadav, 2023-11-08 Prof CNR Rao is a living legend Einstein paid a compliment to Mahatma Gandhi on his 70th birthday He said Generations to come it may well be will scarce believe that such a man as this one ever in flesh and blood walked upon this earth On Prof Rao s birthday I would repeat these words Prof Rao is not an individual he is an institution he is a phenomenon I feel lucky that our generations could see him touch him feel him experience him learn from him and get inspired by him I have watched Prof Rao as a scientist as a science leader as a science institution builder and indeed as a leader of leaders of science I have also watched him as a wonderful warm hearted human being with abundant empathy I have seen his childlike enthusiasm I have watched him as courage personified What follows is more anecdotal but solely based on my personal viewpoint Professor Rao has had a tremendous influence on my life He has been my guru guide friend and philosopher I met him for the first time when he was the Chairman of the Research Advisory Council of the National Chemical Laboratory NCL in the nineteen eighties I was then in my late thirties Professor Rao has an uncanny ability to spot talent among the young He was the President of the Indian Science Congress in the year 1988 which was held in Pune University Mr Rajiv Gandhi was the Prime Minister and he inaugurated the Science Congress Later on during the lunch that followed Prof Rao made a special point to introduce me to Rajiv Gandhi I still remember his words He said Mr Prime Minister meet a rising young star of Indian science Little did I then know that within the next couple of months he would make me a member of the Science Advisory Council to the Prime Minister which he was chairing At 42 I was the youngest member and I remember people calling me the baby of the team Getting that huge exposure at such a young age was something very

special for me I got a helicopter view of India at large It helped me enormously as I moved on in life Padma Vibhushan Dr Raghunath Anant Mashelkar      **Ferrite** Gaurav Sharma,Amit Kumar,Pooja Dhiman,2021-11-10 Ferrites are highly interesting high tech materials The book covers their classification structure synthesis properties and applications Emphasis is placed on biomedical applications degradation of organic pollutants high frequency applications photocatalytic applications for wastewater remediation solar cell applications removal of organic dyes and drugs from aquatic systems and the synthesis of hexagonal ferrites Keywords Ferrite Spinel Ferrite Nanoparticles Biomedical Applications Ferrite Based Heterojunction Photocatalytic Degradation of Organic Pollutants Nickel Zinc Ferrites Spinel Ferrite Based Nanomaterials Water Remediation Magnetic Nano Particles Wastewater Treatment Piezo Phototronic Effect Ferrite Based Solar Cells Aurivillius Based Ceramics Hexagonal Ferrites      **Optoelectronic Properties of Graphene-Based van der Waals Hybrids** Kallol Roy,2020-10-21 This thesis deals with the development and in depth study of a new class of optoelectronic material platform comprising graphene and MoS<sub>2</sub> in which MoS<sub>2</sub> is used essentially to sensitize graphene and lead to unprecedentedly high gain and novel opto electronic memory effects The results presented here open up the possibility of designing a new class of photosensitive devices which can be utilized in various optoelectronic applications including biomedical sensing astronomical sensing optical communications optical quantum information processing and in applications requiring low intensity photodetection and number resolved single photon detection      Graphene Science Handbook Mahmood Aliofkhaezrai,Nasar Ali,William I. Milne,Cengiz S. Ozkan,Stanislaw Mitura,Juana L. Gervasoni,2016-04-21 Size Up the Short and Long Term Effects of GrapheneThe Graphene Science Handbook is a six volume set that describes graphene s special structural electrical and chemical properties The book considers how these properties can be used in different applications including the development of batteries fuel cells photovoltaic cells and supercapac      **Handbook of Graphene, Volume 3** Mei Zhang,2019-06-11 The third volume in a series of handbooks on graphene research and applications Graphene is a valuable nanomaterial used in technology This handbook is focused on Graphene Like 2D Materials The Handbook of Graphene Volume 3 covers topics that include planar graphene superlattices magnetic and optical properties of graphene materials with porous defects and nanoelectronic application of graphyne and its structural derivatives      *Handbook of Non-ferrous Metallurgy Prepared by a Staff of Specialists* Donald Macy Liddell,1926      **Nickel, Cobalt, and Their Alloys** Joseph R. Davis,2000-01-01 This book is a comprehensive guide to the compositions properties processing performance and applications of nickel cobalt and their alloys It includes all of the essential information contained in the ASM Handbook series as well as new or updated coverage in many areas in the nickel cobalt and related industries      *Energy Research Abstracts* ,1986      **Monthly Catalog of United States Government Publications, Cumulative Index** United States. Superintendent of Documents,1980      *Journal of the Society of Chemical Industry* Society of Chemical Industry (Great Britain),1916      **The Chemical Age** ,1927      **Chemical Age** ,1927      Monthly Catalog of United States Government

Publications ,     Engineering and Mining Journal ,1881     **Nuclear Science Abstracts** ,1975     **Scientific and Technical Aerospace Reports** ,1982-10     **Handbook of Graphene, Volume 1** Edvige Celasco,Alexander N.

Chaika,2019-06-28 This unique multidisciplinary 8 volume set focuses on the emerging issues concerning graphene materials and provides a shared platform for both researcher and industry The Handbook of Graphene comprises a set of 8 individual volumes that brings an interdisciplinary perspective to accomplish a more detailed understanding of the interplay between the synthesis structure characterization processing applications and performance of the advanced materials The Handbook of Graphene comprises 140 chapters from world renowned experts Volume 1 is solely focused on Growth Synthesis and Functionalization of Graphene Some of the important topics include but not limited to Graphite in metallic materials growths structures and defects of spheroidal graphite in ductile iron synthesis and quality optimization methods of synthesis and physico chemical properties of fluorographenes graphene SiC reinforced hybrid composite foam response to high strain rate deformation atomic structure and electronic properties of few layer graphene on SiC 001 features and prospects for epitaxial graphene on SiC graphitic carbon graphene on Si 111 via direct deposition of solid state carbon atoms growth mechanism and film characterization chemical reactivity and variation in electronical properties of graphene on Ni 111 and reduced graphene oxide chlorophyll and graphene a new paradigm of biomimetic symphony graphene structures from preparations to applications three dimensional graphene based structures production methods properties and applications electrochemistry of graphene materials hydrogen functionalized graphene nanostructure material for spintronic application the impact of uniaxial strain and defect pattern on magnetoelectronic and transport properties of graphene exploiting graphene as an efficient catalytic template for organic transformations synthesis characterization and activity evaluation of graphene based catalysts exfoliated graphene based 2D materials synthesis and catalytic behaviors functionalization of graphene with molecules and or nanoparticles for advanced applications carbon allotropes between diamond and graphite how to create semiconductor properties in graphene and related structures     Parliamentary Papers Great Britain. Parliament. House of Commons,1918     **Report** Commonwealth Shipping Committee,1917

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