@ Energy of a magnetic dipole in an external field F = V(m. B) > (-F). d7 = - J V(m. B). 22 employed in that treatment of magnetic effect on atomic energy level Zeeman effect: spliting of atomic sublevels Fine structure: spin interacting with the magnetic fied induced by hudeus seen by in the electron's frame Hyper fine structure: magnetic moment of a nucleus in the magnetic field produced by electrons B) Response of a material to magnetic field (macroscopia description) - response in solid are mercroscopic - In a microscopic description, all the sources are assumed to be twom, Which is not generally J Brices =0 -> V. Braces =0 VXBnicro = 47 Juicro - VXBnocro = 7.









