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The intention is to create this book to present physics as a most systematic approach to develop a good numerical solving skill. About Author Satyam Sir has graduated from IIT Kharagpur in Civil Engineering and has been teaching Physics for JEE Mains and Advanced for more than 8 years. He has mentored over ten thousand students and continues mentoring in regular classroom coaching. The students from his class have made into IIT institutions including ranks in top 100. The main goal of this book is to enhance problem solving ability in students. Sir is having hope that you would enjoy this journey of learning physics! In case of query, visit [www.physicsfactor.com](http://www.physicsfactor.com) or WhatsApp to our customer care number +91

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The aim of this book is to review recent achievements in the theoretical investigations of the electronic structure, optical, magneto-optical (MO), and x-ray magnetic circular dichroism (XMCD) properties of compounds and Multilayered structures. Chapter 1 of this book is of an introductory character and presents the theoretical foundations of the band theory of solids such as the density functional theory for ground state properties of solids including local density approximation (LDA). It also presents some modifications to the LDA, such as gradient correction, self-interaction correction, LDA+U method, orbital polarization correction, GW approximation, and dynamical mean- field theory.

The description of the magneto-optical effects and linear

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response theory are also presented. The book describes the MO properties for a number of 3d materials, such as elemental ferromagnetic metals (Fe, Co and Ni) and paramagnetic metals in external magnetic fields (Pd and Pt), some important 3d compounds such as  $XPt_3$  ( $X=V, Cr, Mn, Fe$  and  $Co$ ), Heusler alloys, chromium spinel chalcogenides,  $MnB$  and strongly correlated magnetite  $Fe_3O_4$ . It also describes the recent achievements in both the experimental and theoretical investigations of the electronic structure, optical and MO properties of transition metal multilayered structures (MLS). The book presents also the MO properties of f band ferromagnetic materials: Tm, Nd, Sm, Ce and La monochalcogenides, some important Y

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