



Development of Experimental Setup for Various Magneto-Optical Study

By Mohammed Bsatee

LAP Lambert Academic Publishing Nov 2015, 2015. Taschenbuch. Condition: Neu. Neuware - Progress in modern, widely-defined information technology is strongly determined by the abilities of detailed characterization of semiconductors, phosphors and composite materials in the wide range of anticipated parameters. Traditional electronics use an electron charge as a primary means for information data computing and storage. In contrast, spintronics utilizes the manipulation of an electrons spin which may facilitate opportunities implementing concepts and applications at nanoscale. In order to pursue spintronics realization, novel magnetic materials are required. One way to study magnetic materials is to observe their magneto-optical properties. Through this way, one can study how light interacts with magnetically active materials in the presence of a magnetic field. In general, in this book we are interested in observing the effect of photons electron spin interaction interceded through spin-orbit combination. This book targets developing of experimental setup suitable for studying materials in magnetic field strength up to 1.5 Tesla and light probe with photons energies between 4 eV (UV) to 1eV (NIR) in temperature range from 7 K to 450 K, respectively. 112 pp. Englisch.



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