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# Electrodynamics of Magnetoactive Media



Springer

# Electrodynamics Of Magnetoactive Media

**Nelson A. Logan, R. Flynn**



## **Electrodynamics Of Magnetoactive Media:**

Electrodynamics of Magnetoactive Media Israel D. Vagner, B.I. Lembrikov, Peter Rudolf Wyder, 2003-11-17 The main part of the book describes the behaviour of a charged particle in an electromagnetic field and the electrodynamics of plasmas liquid crystals and superconductors These very different subjects have an important common feature namely the fundamental role played by the magnetic field Plasmas liquid crystals and superconductors can be considered as magnetoactive media because their electromagnetic characteristics are strongly affected by an external magnetic field

*Electrodynamics of Magnetoactive Media* Israel D. Vagner, B.I. Lembrikov, Peter Rudolf Wyder, 2013-03-09 Our objective was primarily to consider in a separate treatise from the general point of view a theory of as many electrodynamic phenomena in a magnetic field as possible The choice of material was determined by both the absence of such a book and the scientific interests of the authors From the very beginning however we felt it necessary to include the fundamentals of electrodynamics that are required for the thorough analysis of particular processes We believe that it is convenient for a reader to find in the same book a consistent review of some special fields in physics and a complete set of theoretical instruments that are necessary for the clear understanding of more advanced parts of the book There exists a number of excellent textbooks and monographs describing the problems of classical electrodynamics in general and its applications to continuous media We have to acknowledge for example the following fundamental books Electrodynamics by A Sommerfeld 1 The Classical Theory of Fields by L D Landau and E M Lifshitz 2 Electromagnetic Theory by J A Stratton 3 and Electrodynamics of Continuous Media by L D Landau and E M Lifshitz 4 This list is certainly not exhaustive However to our knowledge a book specifically covering the theory of electrodynamic phenomena in a magnetic field has not yet been written

*Electrodynamics of Conducting Dispersive Media* Babak Shokri, Anri A. Rukhadze, 2019-12-27 This book presents a sequential representation of the electrodynamics of conducting media with dispersion In addition to the general electrodynamic formalism specific media such as classical nondegenerate plasma degenerate metal plasma magnetoactive anisotropic plasma atomic hydrogen gas semiconductors and molecular crystals are considered The book draws on such classics as Electrodynamics of plasma and plasma like media Silin and Rukhadze and Principles of Plasma Electrodynamics Alexandrov Bogdankevich and Rukhadze yet its outlook is thoroughly modern both in content and presentation including both classical and quantum approaches It explores such recent topics as surface waves on thin layers of plasma and non dispersive media the permittivity of a monatomic gas with spatial dispersion and current driven instabilities in plasma among many others Each chapter is equipped with a large number of problems with solutions that have academic and practical importance This book will appeal to graduate students as well as researchers and other professionals due to its straight forward yet thorough treatment of electrodynamics in conducting dispersive media

*Magneto-Active Polymers* Jean-Paul Pelteret, Paul Steinmann, 2019-12-16 From fabrication to testing and modeling this monograph covers all aspects on the materials class of magneto active

polymers The focus is on computational modeling of manufacturing processes and material parameters As other smart materials these elastomers have the ability to change electrical and mechanical properties upon application of magnetic fields This allows for novel applications ranging from biomedical engineering to mechatronics

**Recent Trends in Theory of Physical Phenomena in High Magnetic Fields** Israel D. Vagner, Peter Wyder, Tsofar Maniv, 2012-12-06 A comprehensive collection of papers on theoretical aspects of electronic processes in simple and synthetic metals superconductors bulk and low dimensional semiconductors under extreme conditions such as high magnetic and electric fields low and ultra low temperatures The main emphasis is on low dimensional conductors and superconductors where correlated electrons interacting with magnetic or nonmagnetic impurities phonons photons or nuclear spins result in a variety of new physical phenomena such as quantum oscillations in the superconducting state Condon instability Skyrmions and composite fermions in quantum Hall effect systems and hyperfine field induced mesoscopic and nanoscopic phenomena Several new experimental achievements are reported that promise to delineate future trends in low temperature and high magnetic field physics including the experimental observation of the interplay between superconductivity and nuclear spin ordering at ultra low temperatures new observations of Condon domains in normal metals and an experimental proposal for the realisation of isotopically engineered semiconductor based spin qubit elements for future quantum computation and communication technology

*Magnetic Components* Peter Zacharias, 2022-12-09 The book deals with methods for the description and design of electromagnetic components Both linear and nonlinear components are covered For electrical simulations the necessary equivalent circuit diagrams are derived and a general methodology is developed Possible influences on properties via material selection winding design and premagnetisation of sections are treated Measurement characterization modeling possible errors and model limits are dealt with extensively In the last chapter examples are discussed

**Bibliography of Soviet Research on Radiowave Propagation and Antennas** Nelson A. Logan, R. Flynn, 1957 Radio Engineering and Electronic Physics, 1964

**Contemporary Optoelectronics** Oleksiy Shulika, Igor Sukhoivanov, 2015-09-11 This book presents a collection of extended contributions on the physics and application of optoelectronic materials and metamaterials The book is divided into three parts respectively covering materials metamaterials and optoelectronic devices Individual chapters cover topics including phonon polariton interaction semiconductor and nonlinear organic materials metallic dielectric and gyrotropic metamaterials singular optics parity time symmetry nonlinear plasmonics microstructured optical fibers passive nonlinear shaping of ultrashort pulses and pulse preserving supercontinuum generation The book contains both experimental and theoretical studies and each contribution is a self contained exposition of a particular topic featuring an extensive reference list The book will be a useful resource for graduate and postgraduate students researchers and engineers involved in optoelectronics photonics quantum electronics optics and adjacent areas of science and technology

CNPS Proceedings 2017 David de Hilster, 2017-07-07 The John

Chappell Natural Philosophy Society CNPS provides an open forum for the study debate and presentation of serious scientific ideas theories philosophies and experiments that are not commonly accepted in mainstream science The CNPS uses the term Natural Philosophy in its broader sense which includes physics cosmology mathematics and the philosophy of science Our goal is to return to the basics where things went wrong and start anew *American Book Publishing Record* ,2004

*Radio Engineering & Electronic Physics* ,1963 **Statistical Physics** E.M. Lifshitz,L. P. Pitaevskii,2013-10-22 The second part of Statistical Physics deals with the quantum theory of the condensed state of matter This volume is essentially an entirely new book based on the large amount of new material which has become available in statistical physics since Part 1 was published *Soviet Physics, Uspekhi* ,1984 Scientific Activities of the Institute of Basic Technical Problems of the Polish Academy of Sciences in .. Instytut Podstawowych Problemów Techniki (Polska Akademia Nauk),1970

**Magnetoelastic Waves** Gevorg Baghdasaryan,Zaven Danoyan,2017-09-28 This book highlights key methods for the mathematical modeling and solution of nonstationary dynamic problems in the theory of magnetoelasticity It also reveals the richness of physical effects caused by the interaction of electromagnetic and mechanical phenomena in both conducting non ferromagnetic and dielectric magnetically active deformable bodies The studies are limited to elastic bodies considering small deformations The book consists of two parts the first of which derives the system of equations for describing magnetoelasticity the surface conditions and equations describing the perturbations behavior of non ferromagnetic conducting media interacting with external magnetic fields These equations are based on the main nonlinear equations and relations of mechanics and quasistatic electrodynamics of continuous media On this basis the book puts forward a number of qualitative and quantitative results solving selected problems of magnetoelastic wave propagation In turn the second part considers surface waves in magnetostrictive and piezomagnetic media It obtains the system of equations surface conditions and state equations describing the perturbations behavior in magnetoactive ferromagnetic dielectric media interacting with external magnetic fields Lastly the book studies the excitations and propagation of new types of surface waves and oscillations in these media conditioned by the magnetostrictive properties of the respective medium and its interaction with an external magnetic field Nuclear Science Abstracts ,1976-04 *Non-stationary Electromagnetics* Alexander

Nerukh,Nataliya Sakhnenko,Trevor Benson,Phillip Sewell,2012-09-26 This book is devoted to investigations of non stationary electromagnetic processes It offers a good opportunity to introduce the Volterra integral equation method more widely to the electromagnetic community The explicit mathematical theory is combined with examples of its application in electromagnetic devices optoelectronics and photonics where time domain methods become a powerful tool for modeling Particular consideration is given to electromagnetic transients in time varying media and their potential applications **Surface Flute Waves in Plasmas** Igor Girka,Manfred Thumm,2022-04-26 This book presents a comprehensive theoretical study of the electromagnetic eigenwaves propagating perpendicular to the axis of symmetry in various cylindrical waveguide structures

filled with magneto active plasma It is the second updated and significantly expanded edition of our book Surface Flute Waves in Plasmas Theory and Applications published in 2014 in the Springer Series on Atomic Optical and Plasma Physics First the text is complemented by a study of the wave energy rotation around the axis of the waveguides Second excitation of these waves by an electron beam gyrating around the axis is investigated in detail Surface waves means that these waves only propagate along plasma surfaces and not in uniform infinite plasmas Their wave amplitudes decrease with going away from the plasma boundary into the plasma depth Flute means that the axial wavenumbers  $k_z$  of the waves in plasma cylinders are assumed to be zero and the waves only propagate in azimuthal direction In this case the surfaces of constant density resemble fluted Greek columns However the presence of a small but finite  $k_z$  can be taken into account by the method of successive approximations using the theory of surface flute waves as zeroth approach A variety of present applications of surface waves and possible future applications are also included The book applies to both professionals dealing with physical and technological problems of confined plasmas and to graduate and post graduate students specializing in the fields of electrodynamics plasma physics and related applications      *Physics Briefs* ,1991

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