

Yu. L. Klimontovich

The Kinetic Theory of

**Electro-
magnetic
Processes**



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The Kinetic Theory Of Electromagnetic Processes

Gottfried Mayer-Kress



The Kinetic Theory Of Electromagnetic Processes:

The Kinetic Theory of Electromagnetic Processes Y. L. Klimontovich, 1983 The best developed of today's kinetic theories are those for gases and completely ionized plasmas In recent years however kinetic theories of more complicated systems consisting of free particles as well as those bound in atoms and an electromagnetic field have played an increasingly important role An example of such a system is a partially ionized plasma of gas discharges or in semiconductors The main purpose of this book is the further development of the kinetic theory of systems of this kind Naturally it would be impossible to encompass at once all the problems concerning the kinetic theory of these extremely complicated systems This book is mainly concerned with processes dominated by weak but collective interactions of charged particles and atoms as well as processes determined by the interaction with an electromagnetic field These topics determined the method adopted here for constructing the kinetic equations of the distribution functions for free and bound charged particles The results of contemporary scattering theory make it possible to take strong interactions which are interpreted as collisions into account without any basic difficulties More complicated however is the task of taking both strong interactions at small distances and weak but collective interactions into account simultaneously The solution of this problem would open an approach to a number of fundamental questions one of which is the construction of a kinetic theory of nonideal chemically reacting systems of charged particles

The Kinetic Theory of Electromagnetic Processes Y. L. Klimontovich, 1983-01-01 The best developed of today's kinetic theories are those for gases and completely ionized plasmas In recent years however kinetic theories of more complicated systems consisting of free particles as well as those bound in atoms and an electromagnetic field have played an increasingly important role An example of such a system is a partially ionized plasma of gas discharges or in semiconductors The main purpose of this book is the further development of the kinetic theory of systems of this kind Naturally it would be impossible to encompass at once all the problems concerning the kinetic theory of these extremely complicated systems This book is mainly concerned with processes dominated by weak but collective interactions of charged particles and atoms as well as processes determined by the interaction with an electromagnetic field These topics determined the method adopted here for constructing the kinetic equations of the distribution functions for free and bound charged particles The results of contemporary scattering theory make it possible to take strong interactions which are interpreted as collisions into account without any basic difficulties More complicated however is the task of taking both strong interactions at small distances and weak but collective interactions into account simultaneously The solution of this problem would open an approach to a number of fundamental questions one of which is the construction of a kinetic theory of nonideal chemically reacting systems of charged particles

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atoms and an electromagnetic field have played an increasingly important role. An example of such a system is a partially ionized plasma of gas discharges or in semiconductors. The main purpose of this book is the further development of the kinetic theory of systems of this kind. Naturally it would be impossible to encompass at once all the problems concerning the kinetic theory of these extremely complicated systems. This book is mainly concerned with processes dominated by weak but collective interactions of charged particles and atoms as well as processes determined by the interaction with an electromagnetic field. These topics determined the method adopted here for constructing the kinetic equations of the distribution functions for free and bound charged particles. The results of contemporary scattering theory make it possible to take strong interactions which are interpreted as collisions into account without any basic difficulties. More complicated, however, is the task of taking both strong interactions at small distances and weak but collective interactions into account simultaneously. The solution of this problem would open an approach to a number of fundamental questions, one of which is the construction of a kinetic theory of nonideal chemically reacting systems of charged particles.

The Kinetic Theory of Electromagnetic Processes I. U. L'vovich Klimontovich, 1983

Complex Systems — Operational Approaches in Neurobiology, Physics, and Computers Hermann Haken, 2012-12-06

A great deal of the success of science has rested on its specific methods. One of which has been to start with the study of simple phenomena such as that of falling bodies or to decompose systems into parts with well defined properties simpler than those of the total system. In our time there is a growing awareness that in many cases of great practical or scientific interest such as economics or the human brain we have to deal with truly complex systems which cannot be decomposed into their parts without losing crucial properties of the total system. In addition, complex systems have many facets and can be looked at from many points of view. Whenever a complicated problem arises, some scientists or other people are ready to invent lots of beautiful words or to quote Goethe: „denn immer wo Begriffe fehlen, dort stellt ein Wort zur rechten Zeit sich ein“ whenever concepts are lacking, a word appears at the right time. Quite often such a procedure gives not only the layman but also scientists working in fields different from that of the inventor of these new words the impression that this problem has been solved, and I am occasionally shocked to see how influential this kind of linguistics has become.

Relativistic Kinetic Theory Gregory V. Vereshchagin, Alexey G. Aksenov, 2017-02-16

Relativistic kinetic theory has widespread application in astrophysics and cosmology. The interest has grown in recent years as experimentalists are now able to make reliable measurements on physical systems where relativistic effects are no longer negligible. This ambitious monograph is divided into three parts. It presents the basic ideas and concepts of this theory, equations and methods including derivation of kinetic equations from the relativistic BBGKY hierarchy and discussion of the relation between kinetic and hydrodynamic levels of description. The second part introduces elements of computational physics with special emphasis on numerical integration of Boltzmann equations and related approaches as well as multi-component hydrodynamics. The third part presents an overview of applications ranging from covariant theory of

plasma response thermalization of relativistic plasma comptonization in static and moving media to kinetics of self gravitating systems cosmological structure formation and neutrino emission during the gravitational collapse **Classical Kinetic Theory of Weakly Turbulent Nonlinear Plasma Processes** Peter H. Yoon, 2019-09-12 A systematic overview of the kinetic theory of weak plasma turbulence including the foundational concepts and mathematical and technical details

Physics of Bioenergetic Processes L. A. Blumenfeld, 2012-12-06 According to its definition synergetics is concerned with the cooperation of individual parts of a system that produces macroscopic temporal spatial or functional structures A good deal of the volumes published within this series dealt with the formation of truly macroscopic structures which we can see with our eyes A common scheme could be developed to understand the formation of many patterns through self organization In particular we have to use concepts which go beyond conventional thermodynamics New ideas became crucial We have to study kinetic processes and often few highly excited degrees of freedom play the decisive role in the evolution of structures Over the past years it has turned out that quite similar lines of approach apply to a world which at first sight would be classified as microscopic That world consists of processes in which biomolecules are involved An important example for the problems occurring there is provided by Manfred Eigen's theory of evolution of life at the molecular level of his contribution to Volume 17 of this series Another important example has been provided by Blumenfeld's book on problems of biological physics Vol 7 of this series There it was proposed to treat biological molecules as machines which in a certain sense work through macroscopic degrees of freedom *Statistical Theory of Open Systems* Yu.L. Klimontovich, 1994-11-30 This monograph gives a systematic presentation of ideas methods and results of the modern statistical theory of open systems systems capable of exchanging matter energy and information with the surrounding world The resulting self organization can lead to more sophisticated and advanced structures Central to this work are the statistical criteria of self organization The feasibility of a unified description of kinetic hydrodynamic and diffusion processes in passive and active macroscopic systems without resorting to the methods of perturbation theory is demonstrated On this basis a general definition of thermal flux is given in terms of the entropy gradient Moreover a consistent method for calculating both kinetic and hydrodynamic fluctuations is proposed This approach is then used to construct a theory of classical and anomalous Brownian motion in nonlinear media This theory makes it possible to treat in an original way the phenomenon of turbulence and to propose a unified kinetic description of laminar and turbulent motion The proposed methods are also applied to the statistical description of quantum macroscopic open systems This provides answers as to whether or not the quantum mechanical description is complete and whether or not there are hidden parameters in quantum mechanics The book has no analogy in the existing literature It is both a monograph and a textbook and is based largely on the author's original research The book will be useful to postgraduate students and researchers in chemistry physics mathematics economics sociology and engineering Statics and Dynamics of Nonlinear Systems Giorgio Benedek, H. Bilz, R. Zeyher, 2012-12-06 The investigation

of the properties of nonlinear systems is one of the fast developing areas of physics. In condensed matter physics this terra incognita is approached from various starting points such as phase transitions and renormalization group theory, nonlinear models, statistical mechanics and others. The study of the mutual interrelations of these disciplines is important in developing unifying methods and models towards a better understanding of nonlinear systems. The present book collects the lectures and seminars delivered at the workshop on Statics and Dynamics of Nonlinear Systems held at the Centre for Scientific Culture Ettore Majorana in Erice, Italy, July 1 to 11, 1983, in the framework of the International School of Materials Science and Technology. Experts and young researchers came together to discuss nonlinear phenomena in condensed matter physics. The book is divided into five parts, each part containing a few general articles introducing the subject followed by related specialized papers. The first part deals with basic properties of nonlinear systems including an introduction to the general theoretical methods. Contributions to the nonlinear aspects of phase transitions are collected in the second part. In the third part properties of incommensurate systems are discussed. Here competing interactions lead to charge density waves, soliton lattices and other complex structures. Another point of special interest illustrated in the fourth part is the chaotic behavior of various systems such as Josephson junctions and discrete lattices.

Self-Organization and Management of Social Systems H. Ulrich, G.J.B. Probst, 2012-12-06 Self-organization of systems belonging to quite different disciplines has been a central topic of synergetics since its beginning. I am therefore particularly pleased that Hans Ulrich and Gilbert Probst have not only undertaken to organize an interdisciplinary meeting on Self-Organization and Management of Social Systems but have also edited these articles written by leading scientists after and based upon that symposium. While the previous volumes of the Springer Series in Synergetics were mainly devoted to physical, chemical and biological systems, with only the book by W. Weidlich and G. Haag dealing with Quantitative Sociology (Springer Ser. Syn. Vol. 14), the present volume opens a new perspective. As the reader will notice, the multitude of facets of self-organization is well reflected by various authors belonging to different disciplines and representing different schools of thought. When such a wide scope of fields ranging from physics to sociology is covered, it is not surprising that the existence of a hiatus between sociology and the natural sciences was felt by some participants.

Non-Equilibrium Dynamics in Chemical Systems C. Vidal, A. Pacault, 2012-12-06 Markedly apart from elementary particle physics, another current has been building up and continuously growing within contemporary physics for several decades and even expanding into many other disciplines, especially chemistry, biology and quite recently economics. Several reasons account for this, presumably the most important one lies in the fact that whatever the specific problem, model or material concerned, the same basic mathematical features are always involved. In this way a general phenomenology has emerged which, unlike thermodynamics, is no longer dependent upon the details or specifics. What largely prevails is the nonlinear character of the underlying dynamics. Perhaps we are witnessing the emergence of a nonlinear physics. In a way similar to the birth of quantum physics in the twenties, a physics which deals with the general behaviour of

systems whatever they are or may be Over the past fifteen years chemical systems evolving sufficiently far from equilibrium have proved to be particularly well fitted to experimental research on nonlinear behaviour oscillation multistability birhythmicity chaotic evolution spatial self organization and hysteresis are displayed by chemical reactions whose number is growing each year In this volume are collected the lectures communications and posters abstracts presented at an international meeting entitled Non Equilibrium Dynamics in Chemical Systems held in Bordeaux France September 3 rd 1984

Dimensions and Entropies in Chaotic Systems Gottfried Mayer-Kress, 2012-12-06 These proceedings contain the papers contributed to the International Workshop on Dimensions and Entropies in Chaotic Systems at the Pecos River Conference Center on the Pecos River Ranch in September 1985 The workshop was held by the Center for Nonlinear Studies of the Los Alamos National Laboratory At the Center for Nonlinear Studies the investigation of chaotic dynamics and especially the quantification of complex behavior has a long tradition In spite of some remarkable successes there are fundamental as well as numerical problems involved in the practical realization of these algorithms This has led to a series of publications in which modifications and improvements of the original methods have been proposed At present there exists a growing number of competing dimension algorithms but no comprehensive review explaining how they are related Further in actual experimental applications rather than a precise algorithm one finds frequent use of rules of thumb together with error estimates which in many cases appear to be far too optimistic Also it seems that questions like What is the maximal dimension of an attractor that one can measure with a given number of data points and a given experimental resolution have still not been answered in a satisfactory manner for general cases

Chemical Oscillations, Waves, and Turbulence Y. Kuramoto, 2012-12-06 This book is intended to provide a few asymptotic methods which can be applied to the dynamics of self oscillating fields of the reaction diffusion type and of some related systems Such systems forming cooperative fields of a large number of interacting similar subunits are considered as typical synergetic systems Because each local subunit itself represents an active dynamical system functioning only in far from equilibrium situations the entire system is capable of showing a variety of curious pattern formations and turbulence-like behaviors quite unfamiliar in thermodynamic cooperative fields I personally believe that the nonlinear dynamics deterministic or statistical of fields composed of similar active non equilibrium elements will form an extremely attractive branch of physics in the near future For the study of non equilibrium cooperative systems some theoretical guiding principle would be highly desirable In this connection this book pushes forward a particular physical viewpoint based on the slaving principle The discovery of this principle in non equilibrium phase transitions especially in lasers was due to Hermann Haken The great utility of this concept will again be demonstrated in this book for the fields of coupled nonlinear oscillators

Dynamics of Hierarchical Systems John S. Nicolis, 2012-12-06 The main aim of these lectures is to trigger the interest of the restless undergraduate student of physical mathematical engineering or biological sciences in the new and exciting multidisciplinary area of the evolution of large scale dynamical

systems This text grew out of a synthesis of rather heterogeneous material that I presented on various occasions and in different contexts For example from lectures given since 1972 to first and final year undergraduate and first year graduate students at the School of Engineering of the University of Patras and from informal seminars offered to an international group of graduate and post doctoral students and faculty members at the University of Stuttgart in the academic year 1982/1983 Those who search for rigor or even formality in this book are bound to be rather disappointed My intention is to start from scratch if possible keeping the reasoning heuristic and tied as closely as possible to physical intuition I assume as prerequisites just basic knowledge of classical physics at the level of the Berkeley series or the Feynman lectures calculus and some elements of probability theory This does not mean that I intended to write an easy book but rather to eliminate any difficulty for an eager reader who in spite of incomplete formalistic training would like to become acquainted with the physical ideas and concepts underlying the evolution and dynamics of complex systems *Self-Organization* V.I.

Krinsky, 2012-12-06 According to its definition Synergetics is concerned with systems that produce macroscopic spatial temporal or functional structures Autowaves are a specific yet very important case of spatio temporal structures The term autowave was coined in the Soviet Union in analogy to the term auto oscillator This is perhaps too literal translation of the Russian word avto ostsillyatory self oscillator which in its proper translation means self sustained oscillator These are oscillators e.g. clocks whose internal energy dissipation is compensated by a more or less continuous power input Similarly the term autowaves denotes propagation effects including waves in active media which provide spatially distributed energy sources and thus may compensate dissipation An example which is now famous is represented by spiral or concentric waves in a chemically active medium undergoing the Belousov Zhabotinsky reaction This book provides the reader with numerous further examples from physics chemistry and biology e.g. autowaves of the heart While the Belousov Zhabotinsky reaction is now widely known a number of very important results obtained in the Soviet Union are perhaps less well known I am particularly glad that this book may help to make readers outside the Soviet Union acquainted with these important experimental and theoretical findings which are presented in a way which elucidates the common principles underlying this kind of propagation effects Professor V *Temporal Order* L. Rensing, N.I. Jaeger, 2012-12-06 This volume contains the lectures and contributions presented at the International Symposium on Temporal Order held in Bremen September 17-22 1984 Temporal order such as a more or less regularly repeated temporal sequence of events can evolve in open systems far removed from equilibrium Progress during the last decade in the analysis and the modelling of this complex phenomenon in both biological and chemical systems gave rise to the idea of a joint conference The purpose of the symposium was to stimulate future work by enhancing the exchange of experimental and theoretical results between neighbouring disciplines Theoretical work in general and mathematical models in particular provided the basis for a mutual discussion and thus helped to overcome difficulties in understanding the results of different experimental fields Chemical systems for example are more

rigorously controllable through their experimental conditions in comparison to biological systems which maintain highly effective autonomous control against environmental influences. Therefore different states such as bistability, oscillations and chaos can be defined and hence described better in chemical systems. Chemical systems may thus provide some insights into functional structures that also exist in more complex biological systems. Advances in Electronics and Electron Physics, 1966-01-01. Advances in Electronics and Electron Physics *Synergetics* Hermann Haken, 2013-11-11. Over the past years the field of synergetics has been mushrooming. An ever increasing number of scientific papers are published on the subject and numerous conferences all over the world are devoted to it. Depending on the particular aspects of synergetics being treated these conferences can have such varied titles as Nonequilibrium Nonlinear Statistical Physics, Self Organization, Chaos and Order and others. Many professors and students have expressed the view that the present book provides a good introduction to this new field. This is also reflected by the fact that it has been translated into Russian, Japanese, Chinese, German and other languages and that the second edition has also sold out. I am taking the third edition as an opportunity to cover some important recent developments and to make the book still more readable. First I have largely revised the section on self organization in continuously extended media and entirely rewritten the section on the Benard instability. Second, because the methods of synergetics are penetrating such fields as economics, I have included an economic model on the transition from full employment to underemployment in which I use the concept of nonequilibrium phase transitions developed elsewhere in the book. Third, because a great many papers are currently devoted to the fascinating problem of chaotic motion, I have added a section on discrete maps. These maps are widely used in such problems and can reveal period doubling, bifurcations, intermittency and chaos. Advanced Synergetics Hermann Haken, 2012-12-06. This text on the interdisciplinary field of synergetics will be of interest to students and scientists in physics, chemistry, mathematics, biology, electrical, civil and mechanical engineering and other fields. It continues the outline of basic concepts and methods presented in my book *Synergetics: An Introduction* which has by now appeared in English, Russian, Japanese, Chinese and German. I have written the present book in such a way that most of it can be read independently of my previous book, though occasionally some knowledge of that book might be useful. But why do these books address such a wide audience? Why are instabilities such a common feature and what do devices and self organizing systems have in common? Self organizing systems acquire their structures or functions without specific interference from outside. The differentiation of cells in biology and the process of evolution are both examples of self organization. Devices such as the electronic oscillators used in radio transmitters on the other hand are man made. But we often forget that in many cases devices function by means of processes which are also based on self organization. In an electronic oscillator the motion of electrons becomes coherent without any coherent driving force from the outside; the device is constructed in such a way as to permit specific collective motions of the electrons. Quite evidently the dividing line between self organizing systems and man made devices is not at all rigid.

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