# MATHEMATICAL PROBLEMS OF CLASSICAL NONLINEAR ELECTROMAGNETIC THEORY

## FREDERICK BLOOM

# Mathematical Problems Of Classical Nonlinear Electromagnetic Theory

**Alexandre Ern,Jean-Luc Guermond**

**Mathematical Problems Of Classical Nonlinear Electromagnetic Theory:**

*Mathematical Problems of Classical Nonlinear Electromagnetic Theory* Frederick Bloom,2020-11-29 A survey of some problems of current interest in the realm of classical nonlinear electromagnetic theory      <u>Electromagnetism of Continuous Media</u> Mauro Fabrizio,Angelo Morro,2003-06-05 For graduate students and researchers this self contained text provides a carefully structured coherent and comprehensive treatment of the mathematical modelling in electromagnetism of continuous media The authors provide a systematic review of known subjects along with many original results Part I reviews basic notions and approaches in electromagnetism Maxwell s equations Green s functions harmonic fields dispersive effects and emphasizes the physical motivation for the modelling of non conventional materials The frequency dependent properties such as conductivity polarizability and magnetizability which enter wave diffraction and dispersion are shown and these lead to a discussion of models of materials with fading memory in the time domain Part II develops the thermodynamics of electromagnetic and thermoelectromagnetic materials with memory and provides a systematic account of thermodynamic restrictions Existence uniqueness and stability problems are investigated Also variational formulations and wave propagation solution are established Part III is devoted to more involved models which are motivated by the interest in materials and structures with non conventional properties The mathematical modelling deals with non linearity non locality and hysteresis In non linear materials attention is focussed on the generation of harmonics and in discontinuity waves Non locality is examined in a general way and hence is applied to superconductivity Hysteresis is developed for magnetism A review of known schemes is given along with new results about the modelling of hysteresis loops The wide application of technologies in new mechanical electronic and biomedical systems calls for materials and structures with non conventional properties e g materials with memory Of equal importance is the understanding of the physical behaviour of these materials and consequently developing mathematical modelling techniques for prediction Includes appendices that include some properties of Bessel functions Fourier transforms and Sobolev spaces compact operators and eigenfunctions differential operators in curvilinear coordinates and finite formulation of electromagnetism      **Incompressible Bipolar and Non-Newtonian Viscous Fluid Flow** Hamid Bellout,Frederick Bloom,2013-11-19 The theory of incompressible multipolar viscous fluids is a non Newtonian model of fluid flow which incorporates nonlinear viscosity as well as higher order velocity gradients and is based on scientific first principles The Navier Stokes model of fluid flow is based on the Stokes hypothesis which a priori simplifies and restricts the relationship between the stress tensor and the velocity By relaxing the constraints of the Stokes hypothesis the mathematical theory of multipolar viscous fluids generalizes the standard Navier Stokes model The rigorous theory of multipolar viscous fluids is compatible with all known thermodynamical processes and the principle of material frame indifference this is in contrast with the formulation of most non Newtonian fluid flow models which result from ad hoc assumptions about the relation between the stress tensor and the velocity The higher order boundary conditions which must

be formulated for multipolar viscous flow problems are a rigorous consequence of the principle of virtual work this is in stark contrast to the approach employed by authors who have studied the regularizing effects of adding artificial viscosity in the form of higher order spatial derivatives to the Navier Stokes model A number of research groups primarily in the United States Germany Eastern Europe and China have explored the consequences of multipolar viscous fluid models these efforts and those of the authors which are described in this book have focused on the solution of problems in the context of specific geometries on the existence of weak and classical solutions and on dynamical systems aspects of the theory This volume will be a valuable resource for mathematicians interested in solutions to systems of nonlinear partial differential equations as well as to applied mathematicians fluid dynamicists and mechanical engineers with an interest in the problems of fluid mechanics    **Hyperbolic Conservation Laws in Continuum Physics** Constantine M. Dafermos,2009-12-12 The aim of this work is to present a broad overview of the theory of hyperbolic c servation laws with emphasis on its genetic relation to classical continuum physics It was originally published a decade ago and a second revised edition appeared in 2005 It is a testament to the vitality of the eld that in order to keep up with cent developments it has become necessary to prepare a substantially expanded and updated new edition A new chapter has been added recounting the exciting recent developmentsin classical open problems in compressible uid ow Still another dition is an account of the early history of the subject which had an interesting multuous childhood Furthermore a substantial portion of the original text has been reorganized so as to streamline the exposition update the information and enrich the collection of examples In particular Chapter V has been completely revised The bibliography has been updated and expanded as well now comprising over teenhundred titles The background scope and plan of the book are outlined in the Introduction following this preface Geometric measure theory functional analysis and dynamical systems provide the necessary tools in the theory of hyperbolic conservation laws but to a great tent the analysis employscustom madetechniques with strong geometric avor derscoring wave propagation and wave interactions This may leave the impression that the area is insular detached from the mainland of partial differential equations    Completeness of Root Functions of Regular Differential Operators Sasun Yakubov,1993-12-20 The precise mathematical investigation of various natural phenomena is an old and difficult problem This book is the first to deal systematically with the general non selfadjoint problems in mechanics and physics It deals mainly with bounded domains with smooth boundaries but also considers elliptic boundary value problems in tube domains i e in non smooth domains This volume will be of particular value to those working in differential equations functional analysis and equations of mathematical physics    *Shock Formation in Small-Data Solutions to 3D Quasilinear Wave Equations* Jared Speck,2016-12-07 In 1848 James Challis showed that smooth solutions to the compressible Euler equations can become multivalued thus signifying the onset of a shock singularity Today it is known that for many hyperbolic systems such singularities often develop However most shock formation results have been proved only in one spatial dimension Serge

Alinhac s groundbreaking work on wave equations in the late 1990s was the first to treat more than one spatial dimension In 2007 for the compressible Euler equations in vorticity free regions Demetrios Christodoulou remarkably sharpened Alinhac s results and gave a complete description of shock formation In this monograph Christodoulou s framework is extended to two classes of wave equations in three spatial dimensions It is shown that if the nonlinear terms fail to satisfy the null condition then for small data shocks are the only possible singularities that can develop Moreover the author exhibits an open set of small data whose solutions form a shock and he provides a sharp description of the blow up These results yield a sharp converse of the fundamental result of Christodoulou and Klainerman who showed that small data solutions are global when the null condition is satisfied Readers who master the material will have acquired tools on the cutting edge of PDEs fluid mechanics hyperbolic conservation laws wave equations and geometric analysis **Revue roumaine de mathématiques pures et appliquées** ,1994 **Ill-posed Problems for Integrodifferential Equations in Mechanics and Electromagnetic Theory** Frederick Bloom,1981-01-01 Examines ill posed initial history boundary value problems associated with systems of partial integrodifferential equations arising in linear and nonlinear theories of mechanical viscoelasticity rigid nonconducting material dielectrics and heat conductors with memory Variants of two differential inequalities logarithmic convexity and concavity are employed Ideas based on energy arguments Riemann invariants and topological dynamics applied to evolution equations are also introduced These concepts are discussed in an introductory chapter and applied there to initial boundary value problems of linear and nonlinear diffusion and elastodynamics Subsequent chapters begin with an explanation of the underlying physical theories **Mathematical Analysis of Deterministic and Stochastic Problems in Complex Media Electromagnetics** G. F. Roach,I. G. Stratis,A. N. Yannacopoulos,2012-03-04 Electromagnetic complex media are artificial materials that affect the propagation of electromagnetic waves in surprising ways not usually seen in nature Because of their wide range of important applications these materials have been intensely studied over the past twenty five years mainly from the perspectives of physics and engineering But a body of rigorous mathematical theory has also gradually developed and this is the first book to present that theory Designed for researchers and advanced graduate students in applied mathematics electrical engineering and physics this book introduces the electromagnetics of complex media through a systematic state of the art account of their mathematical theory The book combines the study of well posedness homogenization and controllability of Maxwell equations complemented with constitutive relations describing complex media The book treats deterministic and stochastic problems both in the frequency and time domains It also covers computational aspects and scattering problems among other important topics Detailed appendices make the book self contained in terms of mathematical prerequisites and accessible to engineers and physicists as well as mathematicians **Determinants and Their Applications in Mathematical Physics** Robert Vein,Paul Dale,2006-05-07 The last treatise on the theory of determinants by T Muir revised and enlarged by W H Metzler was

published by Dover Publications Inc in 1960 It is an unabridged and corrected republication of the edition ori nally published by Longman Green and Co in 1933 and contains a preface by Metzler dated 1928 The Table of Contents of this treatise is given in Appendix 13 A small number of other books devoted entirely to determinants have been published in English but they contain little if anything of importance that was not known to Muir and Metzler A few have appeared in German and Japanese In contrast the shelves of every mathematics library groan under the weight of books on linear algebra some of which contain short chapters on determinants but usually only on those aspects of the subject which are applicable to the chapters on matrices There appears to be tacit agreement among authorities on linear algebra that determinant theory is important only as a branch of matrix theory In sections devoted entirely to the establishment of a determinantal relation many authors de ne a determinant by rst de ning a matrixM and then adding the words Let detM be the determinant of the matrix M as though determinants have no separate existence This belief has no basis in history   *Theory and Applications of Partial Functional Differential Equations* Jianhong Wu,2012-12-06 Abstract semilinear functional differential equations arise from many biological chemical and physical systems which are characterized by both spatial and temporal variables and exhibit various spatio temporal patterns The aim of this book is to provide an introduction of the qualitative theory and applications of these equations from the dynamical systems point of view The required prerequisites for that book are at a level of a graduate student The style of presentation will be appealing to people trained and interested in qualitative theory of ordinary and functional differential equations   **Inverse Problems for Partial Differential Equations** Victor Isakov,2013-06-29 This book describes the contemporary state of the theory and some numerical aspects of inverse problems in partial differential equations The topic is of sub stantial and growing interest for many scientists and engineers and accordingly to graduate students in these areas Mathematically these problems are relatively new and quite challenging due to the lack of conventional stability and to nonlinearity and nonconvexity Applications include recovery of inclusions from anomalies of their gravitational fields reconstruction of the interior of the human body from exterior electrical ultrasonic and magnetic measurements recovery of interior structural parameters of detail of machines and of the underground from similar data non destructive evaluation and locating flying or navigated objects from their acoustic or electromagnetic fields Currently there are hundreds of publica tions containing new and interesting results A purpose of the book is to collect and present many of them in a readable and informative form Rigorous proofs are presented whenever they are relatively short and can be demonstrated by quite general mathematical techniques Also we prefer to present results that from our point of view contain fresh and promising ideas In some cases there is no com plete mathematical theory so we give only available results We do not assume that a reader possesses an enormous mathematical technique In fact a moderate knowledge of partial differential equations of the Fourier transform and of basic functional analysis will suffice   Elements of Applied Bifurcation Theory Yuri Kuznetsov,2013-03-09 The years that have passed since the publication of the first edition of this

book proved that the basic principles used to select and present the material made sense The idea was to write a simple text that could serve as a seri ous introduction to the subject Of course the meaning of simplicity varies from person to person and from country to country The word introduction contains even more ambiguity To start reading this book only a moder ate knowledge of linear algebra and calculus is required Other preliminaries qualified as elementary in modern mathematics are explicitly formulated in the book These include the Fredholm Alternative for linear systems and the multidimensional Implicit Function Theorem Using these very limited tools a framewo k of notions results and methods is gradually built that allows one to read and possibly write scientific papers on bifurcations of nonlinear dynamical systems Among other things progress in the sciences means that mathematical results and methods that once were new become standard and routinely used by the research and development community Hopefully this edition of the book will contribute to this process The book s structure has been kept intact Most of the changes introduced reflect recent theoretical and software developments in which the author was involved Important changes in the third edition can be summarized as follows A new section devoted to the fold flip bifurcation for maps has appeared in Chapter 9 *Theory and Practice of Finite Elements* Alexandre Ern,Jean-Luc Guermond,2013-03-09 The origins of the finite element method can be traced back to the 1950s when engineers started to solve numerically structural mechanics problems in aeronautics Since then the field of applications has widened steadily and nowadays encompasses nonlinear solid mechanics fluid structure interactions flows in industrial or geophysical settings multicomponent reactive turbulent flows mass transfer in porous media viscoelastic flows in medical sciences electromagnetism wave scattering problems and option pricing to cite a few examples Numerous commercial and academic codes based on the finite element method have been developed over the years The method has been so successful to solve Partial Differential Equations PDEs that the term Finite Element Method nowadays refers not only to the mere interpolation technique it is but also to a fuzzy set of PDEs and approximation techniques The efficiency of the finite element method relies on two distinct ingredi ents the interpolation capability of finite elements referred to as the approx imability property in this book and the ability of the user to approximate his model mostly a set of PDEs in a proper mathematical setting thus guar anteeing continuity stability and consistency properties Experience shows that failure to produce an approximate solution with an acceptable accuracy is almost invariably linked to departure from the mathematical foundations Typical examples include non physical oscillations spurious modes and lock ing effects In most cases a remedy can be designed if the mathematical framework is properly set up **Mathematical Reviews** ,2004 *Partial Differential Equations* Fritz John,1991-11-20 This book is a very well accepted introduction to the subject In it the author identifies the significant aspects of the theory and explores them with a limited amount of machinery from mathematical analysis Now in this fourth edition the book has again been updated with an additional chapter on Lewy s example of a linear equation without solutions *Dynamics of Evolutionary Equations* George R. Sell,Yuncheng You,2002-01-02 The theory and applications of infinite

dimensional dynamical systems have attracted the attention of scientists for quite some time Dynamical issues arise in equations that attempt to model phenomena that change with time The infi nite dimensional aspects occur when forces that describe the motion depend on spatial variables or on the history of the motion In the case of spatially depen dent problems the model equations are generally partial differential equations and problems that depend on the past give rise to differential delay equations Because the nonlinearities occurring in thse equations need not be small one needs good dynamical theories to understand the longtime behavior of solutions Our basic objective in writing this book is to prepare an entree for scholars who are beginning their journey into the world of dynamical systems especially in infinite dimensional spaces In order to accomplish this we start with the key concepts of a semiflow and a flow As is well known the basic elements of dynamical systems such as the theory of attractors and other invariant sets have their origins here      *Theory of Multicomponent Fluids* Donald A. Drew,Stephen L. Passman,2006-05-10 In this book we give a rational treatment of multicomponent materials as intera ingcontinua Weoffertwoderivationsoftheequationsofmotionfortheinteracting continua one which uses the concepts of continua for the components and one which applies an averaging operation to the continuum equations for each c ponent Arguments are given for constitutive equations appropriate for dispersed multicomponent ow The forms of the constitutive equations are derived from the principles of continuum mechanics applied to the components and their int actions The solutions of problems of hydromechanics of ordinary continua are used as motivation for the forms of certain constitutive equations in multicom nent materials The balance of the book is devoted to the study of problems of hydrodynamics of multicomponent ows Many materials are homogeneous in the sense that each part of the material has the same response to a given set of stimuli as all of the other parts An example of such a material is pure water Formulation of equations describing the behavior of homogeneous materials is well understood and is described in numerous standard textbooks Many other materials both manufactured and occurring in nature are not mogeneous Such materials are often given names such as mixtures or composites      **Singularities and Groups in Bifurcation Theory** Martin Golubitsky,David G. Schaeffer,2013-11-27 This book has been written in a frankly partisan spirit we believe that singularity theory offers an extremely useful approach to bifurcation prob lems and we hope to convert the reader to this view In this preface we will discuss what we feel are the strengths of the singularity theory approach This discussion then Ieads naturally into a discussion of the contents of the book and the prerequisites for reading it Let us emphasize that our principal contribution in this area has been to apply pre existing techniques from singularity theory especially unfolding theory and classification theory to bifurcation problems Many ofthe ideas in this part of singularity theory were originally proposed by Rene Thom the subject was then developed rigorously by John Matherand extended by V I Arnold In applying this material to bifurcation problems we were greatly encouraged by how weil the mathematical ideas of singularity theory meshed with the questions addressed by bifurcation theory Concerning our title Singularities and Groups in Bifurcation Theory it should be mentioned

that the present text is the first volume in a two volume sequence In this volume our emphasis is on singularity theory with group theory playing a subordinate role In Volume II the emphasis will be more balanced Having made these remarks Iet us set the context for the discussion of the strengths of the singularity theory approach to bifurcation As we use the term bifurcation theory is the study of equations with multiple solutions *Partial Differential Equations II* Michael Taylor,2013-04-17 Partial differential equations is a many faceted subject Created to describe the mechanical behavior of objects such as vibrating strings and blowing winds it has developed into a body of material that interacts with many branches of math ematics such as differential geometry complex analysis and harmonic analysis as weil as a ubiquitous factor in the description and elucidation of problems in mathematical physics This work is intended to provide a course of study of some of the major aspects of PDE It is addressed to readers with a background in the basic introductory grad uate mathematics courses in American universities elementary real and complex analysis differential geometry and measure theory Chapter 1 provides background material on the theory of ordinary differential equations ODE This includes both very basic material on topics such as the existence and uniqueness of solutions to ODE and explicit solutions to equations with constant coefficients and relations to linear algebra and more sophisticated results on flows generated by vector fields connections with differential geom etry the calculus of differential forms stationary action principles in mechanics and their relation to Hamiltonian systems We discuss equations of relativistic motion as weIl as equations of c1assical Newtonian mechanics There are also applications to topological results such as degree theory the Brouwer fixed point theorem and the Jordan Brouwer separation theorem In this chapter we also treat scalar first order PDE via Hamilton Jacobi theory

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