



# Spectral Theory and Nonlinear Analysis with Applications to Spatial Ecology

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# Spectral Theory And Nonlinear Analysis With Applic

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## **Spectral Theory And Nonlinear Analysis With Applic:**

**Spectral Theory And Nonlinear Analysis With Applications To Spatial Ecology** Santiago Cano-casanova, Julian Lopez-gomez, Carlos Mora-corral, 2005-09-29 This volume details some of the latest advances in spectral theory and nonlinear analysis through various cutting edge theories on algebraic multiplicities global bifurcation theory non linear Schrödinger equations non linear boundary value problems large solutions metasolutions dynamical systems and applications to spatial ecology The main scope of the book is bringing together a series of topics that have evolved separately during the last decades around the common denominator of spectral theory and nonlinear analysis from the most abstract developments up to the most concrete applications to population dynamics and socio biology in an effort to fill the existing gaps between these fields

**Nonlinear Spectral Theory** Jürgen Appell, Espedito De Pascale, Alfonso Vignoli, 2004 In view of the eminent importance of spectral theory of linear operators in many fields of mathematics and physics it is not surprising that various attempts have been made to define and study spectra also for nonlinear operators This book provides a comprehensive and self contained treatment of the theory methods and applications of nonlinear spectral theory The only prerequisite for understanding this book is a modest background in functional analysis and operator theory It is addressed to non specialists who want to get an idea of the development of spectral theory for nonlinear operators in the last 30 years as well as a glimpse of the diversity of the directions in which current research is moving

**Spectral Theory & Computational Methods of Sturm-Liouville Problems** Don Hinton, 2021-02-27 Presenting the proceedings of the conference on Sturm Liouville problems held in conjunction with the 26th Barrett Memorial Lecture Series at the University of Tennessee Knoxville this text covers both qualitative and computational theory of Sturm Liouville problems It surveys questions in the field as well as describing applications and concepts

Spectral Theory and Its Applications Bernard Helffer, 2013-01-17 Introduces the basic tools in spectral analysis using numerous examples from the Schrödinger operator theory and various branches of physics

**Ten Mathematical Essays on Approximation in Analysis and Topology** Juan Ferrera, J. Lopez-Gomez, F.R. Ruiz del Portal, 2005-04-26 This book collects 10 mathematical essays on approximation in Analysis and Topology by some of the most influent mathematicians of the last third of the 20th Century Besides the papers contain the very ultimate results in each of their respective fields many of them also include a series of historical remarks about the state of mathematics at the time they found their most celebrated results as well as some of their personal circumstances originating them which makes particularly attractive the book for all scientist interested in these fields from beginners to experts These gem pieces of mathematical intra history should delight to many forthcoming generations of mathematicians who will enjoy some of the most fruitful mathematics of the last third of 20th century presented by their own authors This book covers a wide range of new mathematical results Among them the most advanced characterisations of very weak versions of the classical maximum principle the very last results on global bifurcation theory algebraic multiplicities general

dependencies of solutions of boundary value problems with respect to variations of the underlying domains the deepest available results in rapid monotone schemes applied to the resolution of non linear boundary value problems the intra history of the the genesis of the first general global continuation results in the context of periodic solutions of nonlinear periodic systems as well as the genesis of the coincidence degree some novel applications of the topological degree for ascertaining the stability of the periodic solutions of some classical families of periodic second order equations the resolution of a number of conjectures related to some very celebrated approximation problems in topology and inverse problems as well as a number of applications to engineering an extremely sharp discussion of the problem of approximating topological spaces by polyhedra using various techniques based on inverse systems as well as homotopy expansions and the Bishop Phelps theorem Key features It contains a number of seminal contributions by some of the most world leading mathematicians of the second half of the 20th Century The papers cover a complete range of topics from the intra history of the involved mathematics to the very last developments in Differential Equations Inverse Problems Analysis Nonlinear Analysis and Topology All contributed papers are self contained works containing rather complete list of references on each of the subjects covered The book contains some of the very last findings concerning the maximum principle the theory of monotone schemes in nonlinear problems the theory of algebraic multiplicities global bifurcation theory dynamics of periodic equations and systems inverse problems and approximation in topology The papers are extremely well written and directed to a wide audience from beginners to experts An excellent occasion to become engaged with some of the most fruitful mathematics developed during the last decades

**Introduction to Spectral Theory** P.D. Hislop,I.M. Sigal,2012-12-06 The intention of this book is to introduce students to active areas of research in mathematical physics in a rather direct way minimizing the use of abstract mathematics The main features are geometric methods in spectral analysis exponential decay of eigenfunctions semi classical analysis of bound state problems and semi classical analysis of resonance A new geometric point of view along with new techniques are brought out in this book which have both been discovered within the past decade This book is designed to be used as a textbook unlike the competitors which are either too fundamental in their approach or are too abstract in nature to be considered as texts The authors text fills a gap in the marketplace

**Functional Analysis and Applications** Abul Hasan Siddiqi,2018-05-04 This self contained textbook discusses all major topics in functional analysis Combining classical materials with new methods it supplies numerous relevant solved examples and problems and discusses the applications of functional analysis in diverse fields The book is unique in its scope and a variety of applications of functional analysis and operator theoretic methods are devoted to each area of application Each chapter includes a set of problems some of which are routine and elementary and some of which are more advanced The book is primarily intended as a textbook for graduate and advanced undergraduate students in applied mathematics and engineering It offers several attractive features making it ideally suited for courses on functional analysis intended to provide a basic introduction to the subject and the impact of

functional analysis on applied and computational mathematics nonlinear functional analysis and optimization It introduces emerging topics like wavelets Gabor system inverse problems and application to signal and image processing *Handbook of Applications of Chaos Theory* Christos H. Skiadas, Charilaos Skiadas, 2017-12-19 In addition to explaining and modeling unexplored phenomena in nature and society chaos uses vital parts of nonlinear dynamical systems theory and established chaotic theory to open new frontiers and fields of study *Handbook of Applications of Chaos Theory* covers the main parts of chaos theory along with various applications to diverse areas Expert contributors from around the world show how chaos theory is used to model unexplored cases and stimulate new applications Accessible to scientists engineers and practitioners in a variety of fields the book discusses the intermittency route to chaos evolutionary dynamics and deterministic chaos and the transition to phase synchronization chaos It presents important contributions on strange attractors self exciting and hidden attractors stability theory Lyapunov exponents and chaotic analysis It explores the state of the art of chaos in plasma physics plasma harmonics and overtone coupling It also describes flows and turbulence chaotic interference versus decoherence and an application of microwave networks to the simulation of quantum graphs The book proceeds to give a detailed presentation of the chaotic rogue and noisy optical dissipative solitons parhellic like circle and chaotic light scattering and interesting forms of the hyperbolic prism the Poincaré disc and foams It also covers numerous application areas from the analysis of blood pressure data and clinical digital pathology to chaotic pattern recognition to economics to musical arts and research

**Vorticity and Turbulence** Alexandre J. Chorin, 2013-12-01 This book provides an introduction to the theory of turbulence in fluids based on the representation of the flow by means of its vorticity field It has long been understood that at least in the case of incompressible flow the vorticity representation is natural and physically transparent yet the development of a theory of turbulence in this representation has been slow The pioneering work of Onsager and of Joyce and Montgomery on the statistical mechanics of two dimensional vortex systems has only recently been put on a firm mathematical footing and the three dimensional theory remains in parts speculative and even controversial The first three chapters of the book contain a reasonably standard introduction to homogeneous turbulence the simplest case a quick review of fluid mechanics is followed by a summary of the appropriate Fourier theory more detailed than is customary in fluid mechanics and by a summary of Kolmogorov's theory of the inertial range slanted so as to dovetail with later vortex based arguments The possibility that the inertial spectrum is an equilibrium spectrum is raised

**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

**Chaos Near Resonance** G. Haller, 2012-12-06 Resonances are ubiquitous in dynamical systems with many degrees of freedom They have the basic effect of introducing slow fast behavior in an evolutionary system which coupled with

instabilities can result in highly irregular behavior This book gives a unified treatment of resonant problems with special emphasis on the recently discovered phenomenon of homoclinic jumping After a survey of the necessary background a general finite dimensional theory of homoclinic jumping is developed and illustrated with examples The main mechanism of chaos near resonances is discussed in both the dissipative and the Hamiltonian context Previously unpublished new results on universal homoclinic bifurcations near resonances as well as on multi pulse Silnikov manifolds are described The results are applied to a variety of different problems which include applications from beam oscillations surface wave dynamics nonlinear optics atmospheric science and fluid mechanics The theory is further used to study resonances in Hamiltonian systems with applications to molecular dynamics and rigid body motion The final chapter contains an infinite dimensional extension of the finite dimensional theory with application to the perturbed nonlinear Schrödinger equation and coupled NLS equations

**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 mathematics such as differential geometry complex analysis and harmonic analysis as well 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 graduate 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 geometry the calculus of differential forms stationary action principles in mechanics and their relation to Hamiltonian systems We discuss equations of relativistic motion as well as equations of classical 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

Multiple Scale and Singular Perturbation Methods J.K. Kevorkian, J.D. Cole, 2012-12-06 This book is a revised and updated version including a substantial portion of new material of our text Perturbation Methods in Applied Mathematics Springer Verlag 1981 We present the material at a level that assumes some familiarity with the basics of ordinary and partial differential equations Some of the more advanced ideas are reviewed as needed therefore this book can serve as a text in either an advanced undergraduate course or a graduate level course on the subject Perturbation methods first used by astronomers to predict the effects of small disturbances on the nominal motions of celestial bodies have now become widely used analytical tools in virtually all branches of science A problem lends itself to perturbation analysis if it is close to a simpler problem that can be solved exactly Typically this closeness is measured by the

occurrence of a small dimensionless parameter  $E$  in the governing system consisting of differential equations and boundary conditions so that for  $E \rightarrow 0$  the resulting system is exactly solvable. The main mathematical tool used is asymptotic expansion with respect to a suitable asymptotic sequence of functions of  $E$ . In a regular perturbation problem a straightforward procedure leads to a system of differential equations and boundary conditions for each term in the asymptotic expansion. This system can be solved recursively and the accuracy of the result improves as  $E$  gets smaller for all values of the independent variables throughout the domain of interest. We discuss regular perturbation problems in the first chapter.

### **Optimization**

Elijah Polak, 2012-12-06 This book deals with optimality conditions, algorithms, and discretization techniques for nonlinear programming, semi-infinite optimization, and optimal control problems. The unifying thread in the presentation consists of an abstract theory within which optimality conditions are expressed in the form of zeros of optimality functions. Algorithms are characterized by point-to-set iteration maps, and all the numerical approximations required in the solution of semi-infinite optimization and optimal control problems are treated within the context of consistent approximations and algorithm implementation techniques. Traditionally necessary optimality conditions for optimization problems are presented in Lagrange, F. John, or Karush-Kuhn-Tucker multiplier forms with gradients used for smooth problems and subgradients for nonsmooth problems. We present these classical optimality conditions and show that they are satisfied at a point if and only if this point is a zero of an upper semicontinuous optimality function. The use of optimality functions has several advantages. First, optimality functions can be used in an abstract study of optimization algorithms. Second, many optimization algorithms can be shown to use search directions that are obtained in evaluating optimality functions, thus establishing a clear relationship between optimality conditions and algorithms. Third, establishing optimality conditions for highly complex problems such as optimal control problems with control and trajectory constraints is much easier in terms of optimality functions than in the classical manner. In addition, the relationship between optimality conditions for finite-dimensional problems and semi-infinite optimization and optimal control problems becomes transparent.

*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 substantial 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 publications 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 complete 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

**Configurational Forces as Basic Concepts of Continuum Physics** Morton E. Gurtin, 2008-01-20 For the last decade the author has been working to extend continuum mechanics to treat moving boundaries in materials focusing in particular on problems of metallurgy This monograph presents a rational treatment of the notion of configurational forces it is an effort to promote a new viewpoint Included is a presentation of configurational forces within a classical context and a discussion of their use in areas as diverse as phase transitions and fracture The work should be of interest to materials scientists mechanicians and mathematicians

**Weakly Connected Neural Networks** Frank C. Hoppensteadt, Eugene M. Izhikevich, 2012-12-06 This book is devoted to an analysis of general weakly connected neural networks WCNNs that can be written in the form  $\dot{x}_i = -x_i + \sum_{j=1}^n g_{ij} f_j(x_j)$  Here each  $x_i \in \mathbb{R}$  is a vector that summarizes all physiological attributes of the  $i$ th neuron  $n$  is the number of neurons  $f_i$  describes the dynamics of the  $i$ th neuron and  $g_{ij}$  describes the interactions between neurons The small parameter indicates the strength of connections between the neurons Weakly connected systems have attracted much attention since the second half of seventeenth century when Christian Huygens noticed that a pair of pendulum clocks synchronize when they are attached to a light weight beam instead of a wall The pair of clocks is among the first weakly connected systems to have been studied Systems of the form (0.1) arise in formal perturbation theories developed by Poincaré Liapunov and Malkin and in averaging theories developed by Bogoliubov and Mitropolsky

**Dynamics** Helena E. Nusse, James A. Yorke, 1998 This book together with the accompanying computer program Dynamics 2 included on a diskette is suitable for the novice and the expert in dynamical systems It helps the novice begin immediately exploring dynamical systems with a broad array of interactive techniques The book explains basic ideas of nonlinear dynamical systems and Dynamics 2 provides many tools developed by the Maryland Chaos group to visualize dynamical systems Dynamics 2 can be used by undergraduates by graduate students and by researchers in a variety of scientific disciplines

**Infinite-Dimensional Dynamical Systems in Mechanics and Physics** Roger Temam, 2013-12-11 In this book the author presents the dynamical systems in infinite dimension especially those generated by dissipative partial differential equations This book attempts a systematic study of infinite dimensional dynamical systems generated by dissipative evolution partial differential equations arising in mechanics and physics and in other areas of sciences and technology This second edition has been updated and extended

**Linear Integral Equations** Rainer Kress, 2012-12-06 In the ten years since the first edition of this book appeared integral equations and integral operators have revealed more of their mathematical beauty and power to me Therefore I am pleased to have the opportunity to share some of these new



insights with the readers of this book As in the first edition the main motivation is to present the fundamental theory of integral equations some of their main applications and the basic concepts of their numerical solution in a single volume This is done from my own perspective of integral equations I have made no attempt to include all of the recent developments In addition to making corrections and adjustments throughout the text and updating the references the following topics have been added In Section 4.3 the presentation of the Fredholm alternative in dual systems has been slightly simplified and in Section 5.3 the short presentation on the index of operators has been extended The treatment of boundary value problems in potential theory now includes proofs of the jump relations for single and double layer potentials in Section 6.3 and the solution of the Dirichlet problem for the exterior of an arc in two dimensions Section 7.6 The numerical analysis of the boundary integral equations in Sobolev space settings has been extended for both integral equations of the first kind in Section 13.4 and integral equations of the second kind in Section 12.4

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