Integral Transforms and Their Applications

K. P. Das

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Aykut Koc

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   Mathematical Problems in Image Processing Gilles Aubert,Pierre Kornprobst,2008-04-06 Partial differential equations and variational methods were introduced into image processing about 15 years ago and intensive research has been carried out since then The main goal of this work is to present the variety of image analysis applications and the precise mathematics involved It is intended for two audiences The first is the mathematical community to show the contribution of mathematics to this domain and to highlight some unresolved theoretical questions The second is the computer vision community to present a clear self contained and global overview of the mathematics involved in image processing problems The book is divided into five main parts Chapter 1 is a detailed overview Chapter 2 describes and illustrates most of the mathematical notions found throughout the work Chapters 3 and 4 examine how PDEs and variational methods can be successfully applied in image restoration and segmentation processes Chapter 5 which is more applied describes some challenging computer vision problems such as sequence analysis or classification This book will be useful to researchers and graduate students in mathematics and computer vision   Nonlinear Theory of Shallow Shells Iosif I. Vorovich,2008-01-08 This book presents rigorous treatment of boundary value problems in nonlinear theory of shallow shells The consideration of the problems is carried out using methods of nonlinear functional analysis   *Stability and Wave Motion in Porous Media* Brian Straughan,2008-12-10 This book describes several tractable theories for fluid flow in porous media The important mathematical quations about structural stability and spatial decay are address Thermal convection and stability of other flows in porous media are covered A chapter is devoted to the problem of stability of flow in a fluid overlying a porous layer Nonlinear wave motion in porous media is analysed In particular waves in an elastic body with voids are investigated while acoustic waves in porous media are also analysed in some detail A chapter is enclosed on efficient numerical methods for solving eigenvalue problems which occur in stability problems for flows in porous media Brian Straughan is a professor at the Department of Mathemactical Sciences at Durham University United Kingdom   **Dynamics in Infinite Dimensions** Jack K. Hale,Luis T. Magalhaes,Waldyr Oliva,2006-04-18 State of the art in qualitative theory of functional differential equations Most of the new material has never appeared in book form and some not even in papers Second edition updated with new topics and results Methods discussed will apply to other equations and applications   **Modeling and Inverse Problems in Imaging Analysis** Bernard Chalmond,2012-12-06 More mathematicians have been taking part in the development of digital image processing as a science and the contributions are reflected in the increasingly important role modeling has played solving complex problems This book is mostly concerned with energy based models Through concrete image analysis problems the author develops consistent modeling a know how generally hidden in the proposed solutions The book is divided into three main parts The first two parts describe the materials necessary to the models expressed in the third part These materials include splines variational approach regression spline spline in high dimension and random fields Markovian

field parametric estimation stochastic and deterministic optimization continuous Gaussian field Most of these models come from industrial projects in which the author was involved in robot vision and radiography tracking 3D lines radiographic image processing 3D reconstruction and tomography matching deformation learning Numerous graphical illustrations accompany the text showing the performance of the proposed models This book will be useful to researchers and graduate students in applied mathematics computer vision and physics **Analysis and Simulation of Chaotic Systems** Frank C. Hoppensteadt,2008-01-27 Beginning with realistic mathematical or verbal models of physical or biological phenomena the author derives tractable models for further mathematical analysis or computer simulations For the most part derivations are based on perturbation methods and the majority of the text is devoted to careful derivations of implicit function theorems the method of averaging and quasi static state approximation methods The duality between stability and perturbation is developed and used relying heavily on the concept of stability under persistent disturbances Relevant topics about linear systems nonlinear oscillations and stability methods for difference differential delay integro differential and ordinary and partial differential equations are developed throughout the book For the second edition the author has restructured the chapters placing special emphasis on introductory materials in Chapters 1 and 2 as distinct from presentation materials in Chapters 3 through 8 In addition more material on bifurcations from the point of view of canonical models sections on randomly perturbed systems and several new computer simulations have been added **Numerical Approximation of Hyperbolic Systems of Conservation Laws** Edwige Godlewski,Pierre-Arnaud Raviart,2013-11-21 This work is devoted to the theory and approximation of nonlinear hyper bolic systems of conservation laws in one or two space variables It follows directly a previous publication on hyperbolic systems of conservation laws by the same authors and we shall make frequent references to Godlewski and Raviart 1991 hereafter noted G R though the present volume can be read independently This earlier publication apart from a first chap ter especially covered the scalar case Thus we shall detail here neither the mathematical theory of multidimensional scalar conservation laws nor their approximation in the one dimensional case by finite difference con servative schemes both of which were treated in G R but we shall mostly consider systems The theory for systems is in fact much more difficult and not at all completed This explains why we shall mainly concentrate on some theoretical aspects that are needed in the applications such as the solution of the Riemann problem with occasional insights into more sophisticated problems The present book is divided into six chapters including an introductory chapter For the reader s convenience we shall resume in this Introduction the notions that are necessary for a self sufficient understanding of this book the main definitions of hyperbolicity weak solutions and entropy present the practical examples that will be thoroughly developed in the following chapters and recall the main results concerning the scalar case 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   _Dynamics of Evolutionary Equations_ George R. Sell,Yuncheng You,2013-04-17 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   _Fast Algorithms for the Digital Computation of Linear Canonical Transforms_ Aykut Koc,2011 Although it is straightforward to determine the relationship between the in focus image and the object of a simple optical system such as a lens it is far more challenging to compute the input output relationships of general first order and astigmatic optical systems Such optical systems are known as quadratic phase systems QPS and they include the Fresnel propagation in free space propagation in graded index media passage through thin lenses and arbitrary concatenations of any number of these including anamorphic astigmatic nonorthogonal elements Such computation is accomplished by representing the physical system with a general mathematical framework of integrations against kernels and then distilling the entire system into one input output relationship that can be represented by a linear integral transform The underlying mathematical integral transforms can be applied to a wider field of signal processing where they are known as the linear canonical transform LCT of a signal Conventional numerical integration methods have a computational complexity of O N 2 where N is the space bandwidth product of the sampling scheme e g the number of pixels in the field for an optical system The algorithms described here yield a complexity of only O Nlog N The key is the use of different decompositions or factorizations of a given input output relationship into simpler ones Instead of following the general physical subparts in cascaded systems and computing input output relations separately these algorithms use the simplest possible decompositions to represent the entire system in terms of least possible number of steps The algorithms are Fast Fourier Transform FFT based methods and the only essential deviation from exactness arises from approximating a continuous Fourier transform FT with the discrete Fourier transform DFT Thus the algorithms work with a performance similar to that of the fast Fourier transform algorithm in computing the

Fourier transform both in terms of speed and accuracy Unlike conventional techniques these algorithms also track and control the space bandwidth products in order to achieve information that is theoretically sufficient but not wastefully redundant *Invariant Manifolds and Fibrations for Perturbed Nonlinear Schrödinger Equations* Charles Li,Stephen Wiggins,2012-12-06 This book presents a development of invariant manifold theory for a spe cific canonical nonlinear wave system the perturbed nonlinear Schrooinger equation The main results fall into two parts The first part is concerned with the persistence and smoothness of locally invariant manifolds The sec ond part is concerned with fibrations of the stable and unstable manifolds of inflowing and overflowing invariant manifolds The central technique for proving these results is Hadamard s graph transform method generalized to an infinite dimensional setting However our setting is somewhat different than other approaches to infinite dimensional invariant manifolds since for conservative wave equations many of the interesting invariant manifolds are infinite dimensional and noncom pact The style of the book is that of providing very detailed proofs of theorems for a specific infinite dimensional dynamical system the perturbed nonlinear Schrodinger equation The book is organized as follows Chapter one gives an introduction which surveys the state of the art of invariant manifold theory for infinite dimensional dynamical systems Chapter two develops the general setup for the perturbed nonlinear Schrodinger equation Chapter three gives the proofs of the main results on persistence and smoothness of invariant man ifolds Chapter four gives the proofs of the main results on persistence and smoothness of fibrations of invariant manifolds This book is an outgrowth of our work over the past nine years concerning homoclinic chaos in the perturbed nonlinear Schrodinger equation The theorems in this book provide key building blocks for much of that work *Finite Element Analysis of Acoustic Scattering* Frank Ihlenburg,2006-03-29 A cognitive journey towards the reliable simulation of scattering problems using finite element methods with the pre asymptotic analysis of Galerkin FEM for the Helmholtz equation with moderate and large wave number forming the core of this book Starting from the basic physical assumptions the author methodically develops both the strong and weak forms of the governing equations while the main chapter on finite element analysis is preceded by a systematic treatment of Galerkin methods for indefinite sesquilinear forms In the final chapter three dimensional computational simulations are presented and compared with experimental data The author also includes broad reference material on numerical methods for the Helmholtz equation in unbounded domains including Dirichlet to Neumann methods absorbing boundary conditions infinite elements and the perfectly matched layer A self contained and easily readable work **Front Tracking for Hyperbolic Conservation Laws** Helge Holden,Nils H. Risebro,2007-05-15 This book presents the theory of hyperbolic conservation laws from basic theory to the forefront of research The text treats the theory of scalar conservation laws in one dimension in detail showing the stability of the Cauchy problem using front tracking The extension to multidimensional scalar conservation laws is obtained using dimensional splitting The book includes detailed discussion of the recent proof of well posedness of the Cauchy problem for one

dimensional hyperbolic conservation laws and a chapter on traditional finite difference methods for hyperbolic conservation laws with error estimates and a section on measure valued solutions **Imperfect Bifurcation in Structures and Materials** Kiyohiro Ikeda,Kazuo Murota,2013-03-09 Many physical systems lose or gain stability and pattern through bifurca tion behavior Extensive research of this behavior is carried out in many fields of science and engineering The study of dynamic bifurcation be havior for example has made clear the mechanism of dynamic instability and chaos The group theoretic bifurcation theory is an established means to deal with the formation and selection of patterns in association with symmetry breaking bifurcation Since all physical systems are imperfect in that they inevitably involve some initial imperfections the study of im perfect bifurcation bifurcation of imperfect systems has drawn a keen mathematical interest to yield a series of important results such as the universal unfolding In structural mechanics bifurcation behavior has been studied to model the buckling and failure of structural systems The sharp reduction of the strength of structural systems by initial imperfections is formulated as im perfection sensitivity laws A series of statistical studies has been conducted to make clear the dependence of the strength of structures on the statis tical variation of initial imperfections A difficulty in these studies arises from the presence of a large number of initial imperfections At this state most of these studies are carried out based on the Monte Carlo simulation for a number of initial imperfections or on an imperfection sensitivity law against a single initial imperfection 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 *Spectral Methods for Incompressible Viscous Flow* Roger Peyret,2013-03-09 The objective of this book is to provide a comprehensive discussion of Fourier and Chebyshev spectral methods for the computation of incom pressible viscous flows

based on the Navier Stokes equations and confidence in the numerical results the re For reasons of efficiency searchers and practitioners involved in computational fluid dynamics must be able to master the numerical methods they use Therefore in writing this book beyond the description of the algorithms I have also tried to provide information on the mathematical and computational as well as implementational characteristics of the methods The book contains three parts The first is intended to present the fun damentals of the Fourier and Chebyshev methods for the solution of differ ential problems The second part is entirely devoted to the solution of the N avier Stokes equations considered in vorticity streamfunction and velocity pressure formulations The third part is concerned with the so lution of stiff and singular problems and with the domain decomposition method In writing this book lowe a great debt to the joint contribution of several people to whom I wish to express my deep gratitude First I express my friendly thanks to L Sirovich editor of the series Applied Mathematical Sciences who suggested that I write the book Many thanks are also addressed to my colleagues and former students who contributed to the completion of the book in various ways I am happy to thank P Bontoux O Botella J A Desideri U Ehrenstein M Y Forestier J Frohlich S **Computational Homology** Tomasz Kaczynski,Konstantin Mischaikow,Marian Mrozek,2006-04-18 Homology is a powerful tool used by mathematicians to study the properties of spaces and maps that are insensitive to small perturbations This book uses a computer to develop a combinatorial computational approach to the subject The core of the book deals with homology theory and its computation Following this is a section containing extensions to further developments in algebraic topology applications to computational dynamics and applications to image processing Included are exercises and software that can be used to compute homology groups and maps The book will appeal to researchers and graduate students in mathematics computer science engineering and nonlinear dynamics Chaos, Fractals, and Noise Andrzej Lasota,Michael C. Mackey,2013-11-27 The first edition of this book was originally published in 1985 under the ti tle Probabilistic Properties of Deterministic Systems In the intervening years interest in so called chaotic systems has continued unabated but with a more thoughtful and sober eye toward applications as befits a ma turing field This interest in the serious usage of the concepts and techniques of nonlinear dynamics by applied scientists has probably been spurred more by the availability of inexpensive computers than by any other factor Thus computer experiments have been prominent suggesting the wealth of phe nomena that may be resident in nonlinear systems In particular they allow one to observe the interdependence between the deterministic and probabilistic properties of these systems such as the existence of invariant measures and densities statistical stability and periodicity the influence of stochastic perturbations the formation of attractors and many others The aim of the book and especially of this second edition is to present recent theoretical methods which allow one to study these effects We have taken the opportunity in this second edition to not only correct the errors of the first edition but also to add substantially new material in five sections and a new chapter Nonlinear Oscillations, Dynamical Systems, and Bifurcations of Vector Fields John Guckenheimer,Philip Holmes,2013-11-21 From the reviews This

book is concerned with the application of methods from dynamical systems and bifurcation theories to the study of nonlinear oscillations Chapter 1 provides a review of basic results in the theory of dynamical systems covering both ordinary differential equations and discrete mappings Chapter 2 presents 4 examples from nonlinear oscillations Chapter 3 contains a discussion of the methods of local bifurcation theory for flows and maps including center manifolds and normal forms Chapter 4 develops analytical methods of averaging and perturbation theory Close analysis of geometrically defined two dimensional maps with complicated invariant sets is discussed in chapter 5 Chapter 6 covers global homoclinic and heteroclinic bifurcations The final chapter shows how the global bifurcations reappear in degenerate local bifurcations and ends with several more models of physical problems which display these behaviors Book Review Engineering Societies Library New York 1 An attempt to make research tools concerning strange attractors developed in the last 20 years available to applied scientists and to make clear to research mathematicians the needs in applied works Emphasis on geometric and topological solutions of differential equations Applications mainly drawn from nonlinear oscillations American Mathematical Monthly 2   *Elements of Applied Bifurcation Theory* Yuri Kuznetsov,2008-01-10 Providing readers with a solid basis in dynamical systems theory as well as explicit procedures for application of general mathematical results to particular problems the focus here is on efficient numerical implementations of the developed techniques The book is designed for advanced undergraduates or graduates in applied mathematics as well as for Ph D students and researchers in physics biology engineering and economics who use dynamical systems as model tools in their studies A moderate mathematical background is assumed and whenever possible only elementary mathematical tools are used This new edition preserves the structure of the first while updating the context to incorporate recent theoretical developments in particular new and improved numerical methods for bifurcation analysis

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