

Phase Retrieval and Zero Crossings

Mathematical Methods in Image Reconstruction

by

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Phase Retrieval And Zero Crossings Mathematical Methods In Image Reconstruction

V.V. Alexandrov, Gorsky



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Phase Retrieval and Zero Crossings N.E. Hurt, 2001-11-30 Et moi si j'avait su comment en revenir One service mathematics has rendered the je n'y scrais point alle human race It has put common sense back Jules Verne where it belongs on the topmost shelf next to the dusty canister labelled discarded non The series is divergent therefore we may be sense able to do something with it Erle T Bc11 0 Heaviside Mathematics is a tool for thought A highly necessary tool in a world where both feedback and non linearities abound Similarly all kinds of parts of mathematics serve as tools for other parts and for other sciences Applying a simple rewriting rule to the quote on the right above one finds such statements as One service topology has rendered mathematical physics One service logic has rendered computer science One service category theory has rendered mathematics All arguably true And all statements obtainable this way form part of the raison d'être of this series

Phase Retrieval and Zero Crossings Norman Hurt, 1989 Harmonic Analysis and Convexity Alexander Koldobsky, Alexander Volberg, 2023-07-24 In recent years the interaction between harmonic analysis and convex geometry has increased which has resulted in solutions to several long standing problems This collection is based on the topics discussed during the Research Semester on Harmonic Analysis and Convexity at the Institute for Computational and Experimental Research in Mathematics in Providence RI in Fall 2022 The volume brings together experts working in related fields to report on the status of major problems in the area including the isomorphic Busemann Petty and slicing problems for arbitrary measures extremal problems for Fourier extension and extremal problems for classical singular integrals of martingale type among others

Advances in Imaging and Electron Physics, 2018-06-15 Advances in Imaging and Electron Physics Volume 206 merges two long running serials Advances in Electronics and Electron Physics and Advances in Optical and Electron Microscopy The series features extended articles on the physics of electron devices especially semiconductor devices particle optics at high and low energies microlithography image science digital image processing electromagnetic wave propagation electron microscopy and the computing methods used in all these domains Contains contributions from leading authorities on the subject matter Informs and updates on all the latest developments in the field of imaging and electron physics Provides practitioners interested in microscopy optics image processing mathematical morphology electromagnetic fields electrons and ion emission with a valuable resource Features extended articles on the physics of electron devices especially semiconductor devices particle optics at high and low energies microlithography image science and digital image processing

Wavelets John J. Benedetto, 2021-07-29 Wavelets is a carefully organized and edited collection of extended survey papers addressing key topics in the mathematical foundations and applications of wavelet theory The first part of the book is devoted to the fundamentals of wavelet analysis The construction of wavelet bases and the fast computation of the wavelet transform in both continuous and discrete settings is covered The theory of frames dilation equations and local Fourier bases are also presented The second part of the book discusses applications in signal

analysis while the third part covers operator analysis and partial differential equations Each chapter in these sections provides an up to date introduction to such topics as sampling theory probability and statistics compression numerical analysis turbulence operator theory and harmonic analysis The book is ideal for a general scientific and engineering audience yet it is mathematically precise It will be an especially useful reference for harmonic analysts partial differential equation researchers signal processing engineers numerical analysts fluids researchers and applied mathematicians

Universal Compression and Retrieval R. Krichevsky, 2013-03-09 Objectives Computer and communication practice relies on data compression and dictionary search methods They lean on a rapidly developing theory Its exposition from a new viewpoint is the purpose of the book We start from the very beginning and finish with the latest achievements of the theory some of them in print for the first time The book is intended for serving as both a monograph and a self contained textbook Information retrieval is the subject of the treatises by D Knuth 1973 and K Mehlhorn 1987 Data compression is the subject of source coding It is a chapter of information theory Its up to date state is presented in the books of Storer 1988 Lynch 1985 T Bell et al 1990 The difference between them and the present book is as follows First We include information retrieval into source coding instead of discussing it separately Information theoretic methods proved to be very effective in information search Second For many years the target of the source coding theory was the estimation of the maximal degree of the data compression This target is practically bit today The sought degree is now known for most of the sources We believe that the next target must be the estimation of the price of approaching that degree So we are concerned with trade off between complexity and quality of coding Third We pay special attention to universal families that contain a good compressing map for every source in a set

Pattern Recognition Carl Edward Rasmussen, Heinrich H. Bülthoff, Bernhard Schölkopf, Martin A. Giese, 2004-08-23 This book constitutes the refereed proceedings of the 26th Symposium of the German Association for Pattern Recognition DAGM 2004 held in Tübingen Germany in August September 2004 The 22 revised papers and 48 revised poster papers presented were carefully reviewed and selected from 146 submissions The papers are organized in topical sections on learning Bayesian approaches vision and faces vision and motion biologically motivated approaches segmentation object recognition and object recognition and synthesis

The Cauchy Method of Residues Dragoslav S. Mitrinovic, J.D. Keckic, 2013-12-01 Volume 1 is the monograph *The Cauchy Method of Residues Theory and Applications* published by D Reidel Publishing Company in 1984 is the only book that covers all known applications of the calculus of residues They range from the theory of equations theory of numbers matrix analysis evaluation of real definite integrals summation of finite and infinite series expansions of functions into infinite series and products ordinary and partial differential equations mathematical and theoretical physics to the calculus of finite differences and difference equations The appearance of Volume 1 was acknowledged by the mathematical community Favourable reviews and many private communications encouraged the authors to continue their work the result being the present book Volume 2 a sequel to Volume 1 We mention that Volume 1 is

a revised extended and updated translation of the book Cauchyjev raeun ostataka sa primenama published in Serbian by Nau na knjiga Belgrade in 1978 whereas the greater part of Volume 2 is based upon the second Serbian edition of the mentioned book from 1991 Chapter 1 is introductory while Chapters 2 6 are supplements to the corresponding chapters of Volume 1 They mainly contain results missed during the preparation of Volume 1 and also some new results published after 1982 Besides certain topics which were only briefly mentioned in Volume 1 are treated here in more detail

Image Representation and Processing V.V. Alexandrov,Gorsky,2012-12-06 Recently much attention has been paid to image processing with multiresolution and hierarchical structures such as pyramids and trees This volume deals with recursive pyramids which combine the advantages of available multiresolution structures and which are convenient both for global and local image processing Recursive pyramids are based on regular hierarchical recursive structures containing data on image fragments of different sizes Such an image representation technique enables the effective manipulation of pictorial information as well as the development of special hardware or data structures The major aspects of this book are two original mathematical models of greyscale and binary images represented by recursive structures Image compression transmission and processing are discussed using these models A number of applications are presented including optical character recognition expert systems and special computer architecture for pictorial data processing The majority of results are presented as algorithms applicable to discrete information fields of arbitrary dimensions e g 2 D or 3 D images The book is divided into six chapters Chapter 1 provides a brief introduction Chapter 2 then deals with recursive structures and their properties Chapter 3 introduces pyramidal image models Image coding and the progressive transmission of images with gradual refinement are discussed in Chapter 4 Chapters 5 and 6 are devoted to image processing with pyramidal recursive structures and applications The volume concludes with a comprehensive bibliography For applied mathematicians and computer scientists whose work involves computer vision information theory and other aspects of image representation techniques

Nonstandard Methods of Analysis A.G. Kusraev,Semën Samsonovich Kutateladze,2012-12-06 Nonstandard Methods of Analysis is concerned with the main trends in this field infinitesimal analysis and Boolean valued analysis The methods that have been developed in the last twenty five years are explained in detail and are collected in book form for the first time Special attention is paid to general principles and fundamentals of formalisms for infinitesimals as well as to the technique of descents and ascents in a Boolean valued universe The book also includes various novel applications of nonstandard methods to ordered algebraic systems vector lattices subdifferentials convex programming etc that have been developed in recent years For graduate students postgraduates and all researchers interested in applying nonstandard methods in their work

Neural Adaptive Control Technology Rafa? ?bikowski,Kenneth J. Hunt,1996 This book is an outgrowth of the workshop on Neural Adaptive Control Technology NACT I held in 1995 in Glasgow Selected workshop participants were asked to substantially expand and revise their contributions to make them into full papers The workshop

was organised in connection with a three year European Union funded Basic Research Project in the ESPRIT framework called NACT a collaboration between Daimler Benz Germany and the University of Glasgow Scotland A major aim of the NACT project is to develop a systematic engineering procedure for designing neural controllers for nonlinear dynamic systems The techniques developed are being evaluated on concrete industrial problems from Daimler Benz In the book emphasis is put on development of sound theory of neural adaptive control for nonlinear control systems but firmly anchored in the engineering context of industrial practice Therefore the contributors are both renowned academics and practitioners from major industrial users of neurocontrol

G-Convergence and Homogenization of Nonlinear Partial Differential Operators A.A. Pankov, 2013-04-17 Various applications of the homogenization theory of partial differential equations resulted in the further development of this branch of mathematics attracting an increasing interest of both mathematicians and experts in other fields In general the theory deals with the following Let A_k be a sequence of differential operators linear or nonlinear We want to examine the asymptotic behaviour of solutions u_k to the equation $A_k u_k = f$ as $k \rightarrow \infty$ provided coefficients of A_k contain rapid oscillations This is the case e.g. when the coefficients are of the form $a(x/\varepsilon_k)$ where the function $a(y)$ is periodic and $\varepsilon_k \rightarrow 0$ as $k \rightarrow \infty$ Of course of oscillation like almost periodic or random homogeneous are of many other kinds interest as well It seems a good idea to find a differential operator A such that $u_k \rightarrow u$ where u is a solution of the limit equation $Au = f$ Such a limit operator is usually called the homogenized operator for the sequence A_k Sometimes the term averaged is used instead of homogenized Let us look more closely what kind of convergence one can expect for u_k Usually we have some a priori bound for the solutions However due to the rapid oscillations of the coefficients such a bound may be uniform with respect to k in the corresponding energy norm only Therefore we may have convergence of solutions only in the weak topology of the energy space

Distortion Theorems in Relation to Linear Integral Operators Y. Komatu, 2012-12-06 The present monograph consists of two parts Before Part I a chapter of introduction is supplemented where an overview of the whole volume is given for reader's convenience The former part is devoted mainly to expose linear integral operators introduced by the author Several properties of the operators are established and specializations as well as generalizations are attempted variously in order to make use them in the latter part As compared with the former part the latter part is devoted mainly to develop several kinds of distortions under actions of integral operators for various familiar function also absolute modulus real part range length and area angular derivative etc Besides them distortions on the class of univalent functions and its subclasses Caratheodory class as well as distortions by a differential operator are dealt with Related differential operators play also active roles Many illustrative examples will be inserted in order to help understanding of the general statements The basic materials in this monograph are taken from a series of researches performed by the author himself chiefly in the past two decades While the themes of the papers published hitherto are necessarily not arranged chronologically Preface viii and systematically the author makes here an effort to arrange them as orderly as possible In attaching the importance of

the self containedness to the book some of unfamiliar subjects will also be inserted and moreover be wholly accompanied by their respective proofs though unrelated they may be

Dynamic Systems on Measure Chains V. Lakshmikantham, S. Sivasundaram, B. Kaymakçalan, 2013-06-29 From a modelling point of view it is more realistic to model a phenomenon by a dynamic system which incorporates both continuous and discrete times namely time as an arbitrary closed set of reals called time scale or measure chain It is therefore natural to ask whether it is possible to provide a framework which permits us to handle both dynamic systems simultaneously so that one can get some insight and a better understanding of the subtle differences of these two different systems The answer is affirmative and recently developed theory of dynamic systems on time scales offers the desired unified approach In this monograph we present the current state of development of the theory of dynamic systems on time scales from a qualitative point of view It consists of four chapters Chapter one develops systematically the necessary calculus of functions on time scales In chapter two we introduce dynamic systems on time scales and prove the basic properties of solutions of such dynamic systems The theory of Lyapunov stability is discussed in chapter three in an appropriate setup Chapter four is devoted to describing several different areas of investigations of dynamic systems on time scales which will provide an exciting prospect and impetus for further advances in this important area which is very new Some important features of the monograph are as follows It is the first book that is dedicated to a systematic development of the theory of dynamic systems on time scales which is of recent origin It demonstrates the interplay of the two different theories namely the theory of continuous and discrete dynamic systems when imbedded in one unified framework It provides an impetus to investigate in the setup of time scales other important problems which might offer a better understanding of the intricacies of a unified study

LIST Audience The readership of this book consists of applied mathematicians engineering scientists research workers in dynamic systems chaotic theory and neural nets

Advanced Topics in Difference Equations R.P. Agarwal, Patricia J.Y. Wong, 2013-04-17 The theory of difference equations the methods used in their solutions and their wide applications have advanced beyond their adolescent stage to occupy a central position in Applicable Analysis In fact in the last five years the proliferation of the subject is witnessed by hundreds of research articles and several monographs two International Conferences and numerous Special Sessions and a new Journal as well as several special issues of existing journals all devoted to the theme of Difference Equations Now even those experts who believe in the universality of differential equations are discovering the sometimes striking divergence between the continuous and the discrete There is no doubt that the theory of difference equations will continue to play an important role in mathematics as a whole In 1992 the first author published a monograph on the subject entitled Difference Equations and Inequalities This book was an in depth survey of the field up to the year of publication Since then the subject has grown to such an extent that it is now quite impossible for a similar survey even to cover just the results obtained in the last four years to be written In the present monograph we have collected some of the results which we have obtained in the last few years as

well as some yet unpublished ones

Subdifferentials A.G. Kusraev, Semën Samsonovich Kutateladze, 2012-12-06 The subject of the present book is sub differential calculus The main source of this branch of functional analysis is the theory of extremal problems For a start we explicate the origin and statement of the principal problems of sub differential calculus To this end consider an abstract minimization problem formulated as follows $x \in X, f(x) \inf$ Here X is a vector space and $f: X \rightarrow \mathbb{R}$ is a numeric function taking possibly infinite values In these circumstances we are usually interested in the quantity $\inf f(x)$ the value of the problem and in a solution or an optimum plan of the problem i.e. such an x that $f(x) = \inf f(X)$ if the latter exists It is a rare occurrence to solve an arbitrary problem explicitly i.e. to exhibit the value of the problem and one of its solutions In this respect it becomes necessary to simplify the initial problem by reducing it to somewhat more manageable modifications formulated with the details of the structure of the objective function taken in due account The conventional hypothesis presumed in attempts at theoretically approaching the reduction sought is as follows Introducing an auxiliary function ϕ one considers the next problem $x \in X, f(x) \leq \phi(x), \phi(x) \inf$ Furthermore the new problem is assumed to be as complicated as the initial problem provided that ϕ is a linear functional over X i.e.

Convex and Starlike Mappings in Several Complex Variables Sheng Gong, 2012-12-06 This book deals with the theory of convex and starlike biholomorphic mappings in several complex variables The underlying theme is the extension to several complex variables of geometric aspects of the classical theory of univalent functions This is the first book which systematically studies this topic It gathers together and presents in a unified manner the current state of affairs for convex and starlike biholomorphic mappings in several complex variables The majority of the results presented are due to the author his co workers and his students Audience This volume will be of interest to research mathematicians whose work involves several complex variables and one complex variable

Logarithms and Antilogarithms D. Przeworska-Rolewicz, 2012-12-06 This volume proposes and explores a new definition of logarithmic mappings as invertible selectors of multifunctions induced by linear operators with domains and ranges in an algebra over a field of characteristic zero Several important previously published results are presented Amongst the applications of logarithmic and antilogarithmic mappings are the solution of linear and nonlinear equations in algebras of square matrices Some results may also provide numerical algorithms for the approximation of solutions Audience Research mathematicians and other scientists of other disciplines whose work involves the solution of equations

Theory of Commuting Nonselfadjoint Operators M.S. Livsic, N. Kravitsky, A.S. Markus, V. Vinnikov, 2013-06-29 Considering integral transformations of Volterra type F Riesz and B Sz Nagy noticed in 1952 that 49 The existence of such a variety of linear transformations having the same spectrum concentrated at a single point brings out the difficulties of characterization of linear transformations of general type by means of their spectra Subsequently spectral analysis has been developed for different classes of non selfadjoint operators 6 7 14 20 21 36 44 46 54 It was then realized that this analysis forms a natural basis for the theory of systems interacting with the environment The success of this theory in the single operator case

inspired attempts to create a general theory in the much more complicated case of several commuting operators with finite dimensional imaginary parts During the past 10 15 years such a theory has been developed yielding fruitful connections with algebraic geometry and system theory Our purpose in this book is to formulate the basic problems appearing in this theory and to present its main results It is worth noting that in addition to the joint spectrum the corresponding algebraic variety and its global topological characteristics play an important role in the classification of commuting operators For the case of a pair of operators these are 1 The corresponding algebraic curve and especially its genus 2 Certain classes of divisors or certain line bundles on this curve

Oscillation Theory of Two-Term Differential Equations Uri Elias, 2013-03-14

Oscillation theory was born with Sturm's work in 1836 It has been flourishing for the past fifty years Nowadays it is a full self contained discipline turning more towards nonlinear and functional differential equations Oscillation theory flows along two main streams The first aims to study properties which are common to all linear differential equations The other restricts its area of interest to certain families of equations and studies in maximal details phenomena which characterize only those equations Among them we find third and fourth order equations self adjoint equations etc Our work belongs to the second type and considers two term linear equations modeled after $y^{(n)} + p(x)y = 0$ More generally we investigate $L_n y + p(x)y = 0$ where L_n is a disconjugate operator and $p(x)$ has a fixed sign These equations enjoy a very rich structure and are the natural generalization of the Sturm Liouville operator Results about such equations are distributed over hundreds of research papers many of them are reinvented again and again and the same phenomenon is frequently discussed from various points of view and different definitions of the authors Our aim is to introduce an order into this plenty and arrange it in a unified and self contained way The results are readapted and presented in a unified approach In many cases completely new proofs are given and in no case is the original proof copied verbatim Many new results are included

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