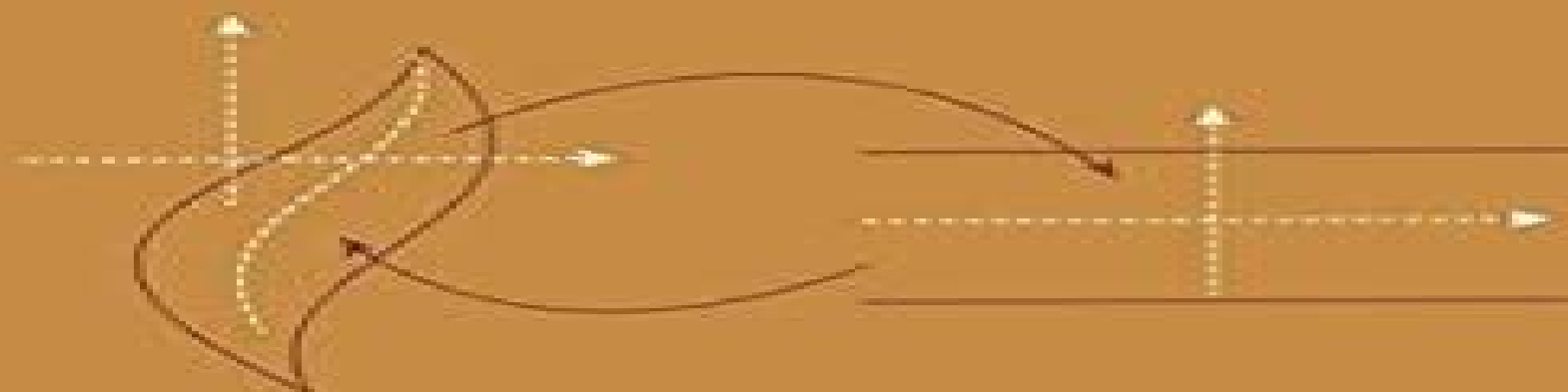


Frank Stenger

Numerical Methods Based on Sinc and Analytic Functions



Springer-Verlag

Numerical Methods Based On Sinc And Analytic Functions

James P. Keener



Numerical Methods Based On Sinc And Analytic Functions:

Numerical Methods Based on Sinc and Analytic Functions Frank Stenger, 2012-12-06 Many mathematicians scientists and engineers are familiar with the Fast Fourier Transform a method based upon the Discrete Fourier Transform Perhaps not so many mathematicians scientists and engineers recognize that the Discrete Fourier Transform is one of a family of symbolic formulae called Sinc methods Sinc methods are based upon the Sinc function a wavelet like function replete with identities which yield approximations to all classes of computational problems Such problems include problems over finite semi infinite or infinite domains problems with singularities and boundary layer problems Written by the principle authority on the subject this book introduces Sinc methods to the world of computation It serves as an excellent research sourcebook as well as a textbook which uses analytic functions to derive Sinc methods for the advanced numerical analysis and applied approximation theory classrooms Problem sections and historical notes are included

Numerical Methods Based On Sinc And Analytic Functions F. Stenger, New Sinc Methods of Numerical Analysis Gerd Baumann, 2021-04-23 This contributed volume honors the 80th birthday of Frank Stenger who established new Sinc methods in numerical analysis The contributions written independently from each other show the new developments in numerical analysis in connection with Sinc methods and approximations of solutions for differential equations boundary value problems integral equations integrals linear transforms eigenvalue problems polynomial approximations computations on polyhedra and many applications The approximation methods are exponentially converging compared with standard methods and save resources in computation They are applicable in many fields of science including mathematics physics and engineering The ideas discussed serve as a starting point in many different directions in numerical analysis research and applications which will lead to new and unprecedented results This book will appeal to a wide readership from students to specialized experts

Navier-Stokes Equations on $\mathbb{R}^3 \times [0, T]$ Frank Stenger, Don Tucker, Gerd Baumann, 2016-09-23 In this monograph leading researchers in the world of numerical analysis partial differential equations and hard computational problems study the properties of solutions of the Navier Stokes partial differential equations on $x, y, z, t \in \mathbb{R}^3, 0 \leq t \leq T$ Initially converting the PDE to a system of integral equations the authors then describe spaces A of analytic functions that house solutions of this equation and show that these spaces of analytic functions are dense in the spaces S of rapidly decreasing and infinitely differentiable functions This method benefits from the following advantages The functions of S are nearly always conceptual rather than explicit Initial and boundary conditions of solutions of PDE are usually drawn from the applied sciences and as such they are nearly always piece wise analytic and in this case the solutions have the same properties When methods of approximation are applied to functions of A they converge at an exponential rate whereas methods of approximation applied to the functions of S converge only at a polynomial rate Enables sharper bounds on the solution enabling easier existence proofs and a more accurate and more efficient method of solution including accurate error bounds Following the proofs of denseness the

authors prove the existence of a solution of the integral equations in the space of functions $A_{R^3 \times T}$ and provide an explicit novel algorithm based on Sinc approximation and Picard like iteration for computing the solution. Additionally the authors include appendices that provide a custom Mathematica program for computing solutions based on the explicit algorithmic approximation procedure and which supply explicit illustrations of these computed solutions.

Approximation Theory, Wavelets and Applications S.P. Singh, 2013-03-09 Approximation Theory Wavelets and Applications draws together the latest developments in the subject provides directions for future research and paves the way for collaborative research. The main topics covered include constructive multivariate approximation theory of splines spline wavelets polynomial and trigonometric wavelets interpolation theory polynomial and rational approximation. Among the scientific applications were de noising using wavelets including the de noising of speech and images and signal and digital image processing. In the area of the approximation of functions the main topics include multivariate interpolation quasi interpolation polynomial approximation with weights knot removal for scattered data convergence theorems in Pad theory Lyapunov theory in approximation Neville elimination as applied to shape preserving presentation of curves interpolating positive linear operators interpolation from a convex subset of Hilbert space and interpolation on the triangle and simplex. Wavelet theory is growing extremely rapidly and has applications which will interest readers in the physical medical engineering and social sciences.

Reproducing Kernels and their Applications S. Saitoh, Daniel Alpay, Joseph A. Ball, Takeo Ohsawa, 2013-11-11 The First International Congress of the International Society for Analysis its Applications and Computations ISAAC 97 was held at the University of Delaware from 3 to 7 June 1997. As specified in the invitation of the President Professor Robert P Gilbert of the ISAAC we organized the session on Reproducing Kernels and Their Applications. In our session we presented 24 engaging talks on topics of current interest to the research community. As suggested and organized by Professor Gilbert we hereby publish its Proceedings. Rather than restricting the papers to Congress participants we asked the leading mathematicians in the field of the theory of reproducing kernels to submit papers. However due to time restrictions and a compulsion to limit the Proceedings a reasonable size we were unable to obtain a comprehensive treatment of the theory of reproducing kernels. Nevertheless we hope this Proceedings of the First International Conference on reproducing kernels will become a significant reference volume. Indeed we believe that the theory of reproducing kernels will stand out as a fundamental and beautiful contribution in mathematical sciences with a broad array of applications to other areas of mathematics and science. We would like to thank Professor Robert Gilbert for his substantial contributions to the Congress and to our Proceedings. We also express our sincere thanks to the staff of the University of Delaware for their manifold cooperation in organizing the Congress.

Approximation and Computation Walter Gautschi, Giuseppe Mastroianni, Themistocles M. Rassias, 2010-10-20 Approximation theory and numerical analysis are central to the creation of accurate computer simulations and mathematical models. Research in these areas can influence the computational techniques

used in a variety of mathematical and computational sciences This collection of contributed chapters dedicated to renowned mathematician Gradimir V Milovanovi represent the recent work of experts in the fields of approximation theory and numerical analysis These invited contributions describe new trends in these important areas of research including theoretic developments new computational algorithms and multidisciplinary applications Special features of this volume Presents results and approximation methods in various computational settings including polynomial and orthogonal systems analytic functions and differential equations Provides a historical overview of approximation theory and many of its subdisciplines Contains new results from diverse areas of research spanning mathematics engineering and the computational sciences Approximation and Computation is intended for mathematicians and researchers focusing on approximation theory and numerical analysis but can also be a valuable resource to students and researchers in the computational and applied sciences

Physics of Mass Behram N. Kursunogammalu, Stephan L. Mintz, Arnold Perlmutter, 2007-05-08 Sponsored by the Global Foundation Inc these proceedings are derived from the International Conference on Orbis Scientiae II Topics covered include gravitational mass neutrino mass particle masses cosmological masses susy masses and big bang creation of mass

Concepts of Mathematical Physics in Chemistry: A Tribute to Frank E. Harris - Part A , 2015-08-06 This volume presents a series of articles concerning current important topics in quantum chemistry Presents surveys of current topics in this rapidly developing field that has emerged at the cross section of the historically established areas of mathematics physics chemistry and biology Features detailed reviews written by leading international researchers

Matrix Methods

Vadim Olshevsky, E. E. Tyrtshnikov, 2010 Operators preserving primitivity for matrix pairs L B Beasley A E Guterman Decompositions of quaternions and their matrix equivalents D Janovsk G Opfer Sensitivity analysis of Hamiltonian and reversible systems prone to dissipation induced instabilities O N Kirillov Block triangular miniversal deformations of matrices and matrix pencils L Klimenko V V Sergeichuk Determining the Schein rank of boolean matrices E E Marenich Lattices of matrix rows and matrix columns Lattices of invariant column eigenvectors V Marenich Matrix algebras and their length O V Markova On a new class of singular nonsymmetric matrices with nonnegative integer spectra T Nahtman D von Rosen Reduction of a set of matrices over a principal ideal domain to the Smith normal forms by means of the same one sided transformation V M Prokip Nonsymmetric algebraic Riccati equations associated with an M matrix recent advances and algorithms D A Bini B Iannazzo B Meini F Poloni A generalized conjugate direction method for nonsymmetric large ill conditioned linear systems E R Boudinov A I Manevich There exist normal Hankel symbol symbol circulants of any order symbol V N Chugunov Kh D Ikramov On the treatment of boundary artifacts in image restoration by reflection and or anti reflection M Donatelli S Serra Capizzano Zeros of determinants of symbol matrices W Gander How to find a good submatrix S A Goreinov und weiteren Conjugate and semi conjugate direction methods with preconditioning projectors V P Il in Some relationships between optimal preconditioner and superoptimal preconditioner J B Chen und weiteren Scaling

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first time now includes extensive corrections collated and collected by the author

Sampling, Wavelets, and Tomography John J. Benedetto, Ahmed I. Zayed, 2012-12-06 Sampling wavelets and tomography are three active areas of contemporary mathematics sharing common roots that lie at the heart of harmonic and Fourier analysis The advent of new techniques in mathematical analysis has strengthened their interdependence and led to some new and interesting results in the field This state of the art book not only presents new results in these research areas but it also demonstrates the role of sampling in both wavelet theory and tomography Specific topics covered include Robustness of Regular Sampling in Sobolev Algebras Irregular and Semi Irregular Weyl Heisenberg Frames Adaptive Irregular Sampling in Meshfree Flow Simulation Sampling Theorems for Non Bandlimited Signals Polynomial Matrix Factorization Multidimensional Filter Banks and Wavelets Generalized Frame Multiresolution Analysis of Abstract Hilbert Spaces Sampling Theory and Parallel Beam Tomography Thin Plate Spline Interpolation in Medical Imaging Filtered Back Projection Algorithms for Spiral Cone Computed Tomography Aimed at mathematicians scientists and engineers working in signal and image processing and medical imaging the work is designed to be accessible to an audience with diverse mathematical backgrounds Although the volume reflects the contributions of renowned mathematicians and engineers each chapter has an expository introduction written for the non specialist One of the key features of the book is an introductory chapter stressing the interdependence of the three main areas covered A comprehensive index completes the work Contributors J J Benedetto N K Bose P G Casazza Y C Eldar H G Feichtinger A Faridani A Iske S Jaffard A Katsevich S Lertrattanapanich G Lauritsch B Mair M Papadakis P P Vaidyanathan T Werther D C Wilson A I Zayed

Spectral Methods in Chemistry and Physics Bernard Shizgal, 2015-01-07 This book is a pedagogical presentation of the application of spectral and pseudospectral methods to kinetic theory and quantum mechanics There are additional applications to astrophysics engineering biology and many other fields The main objective of this book is to provide the basic concepts to enable the use of spectral and pseudospectral methods to solve problems in diverse fields of interest and to a wide audience While spectral methods are generally based on Fourier Series or Chebychev polynomials non classical polynomials and associated quadratures are used for many of the applications presented in the book Fourier series methods are summarized with a discussion of the resolution of the Gibbs phenomenon Classical and non classical quadratures are used for the evaluation of integrals in reaction dynamics including nuclear fusion radial integrals in density functional theory in elastic scattering theory and other applications The subject matter includes the calculation of transport coefficients in gases and other gas dynamical problems based on spectral and pseudospectral solutions of the Boltzmann equation Radiative transfer in astrophysics and atmospheric science and applications to space physics are discussed The relaxation of initial non equilibrium distributions to equilibrium for several different systems is studied with the Boltzmann and Fokker Planck equations The eigenvalue spectra of the linear operators in the Boltzmann Fokker Planck and Schr dinger equations are studied with spectral and pseudospectral methods based on

non classical orthogonal polynomials The numerical methods referred to as the Discrete Ordinate Method Differential Quadrature the Quadrature Discretization Method the Discrete Variable Representation the Lagrange Mesh Method and others are discussed and compared MATLAB codes are provided for most of the numerical results reported in the book see Link under Additional Information on the the right hand column

[Sampling Theory in Fourier and Signal Analysis](#) John Rowland Higgins,1996 Containing important new material unavailable previously in book form this book covers a wide variety of topics which will be great interest to applied mathematicians and engineers Introducing the main ideas background material is provided on Fourier analysis Hilbert spaces and their bases before the book moves on to discuss more complex topics and their applications

[Inverse Problems, Image Analysis, and Medical Imaging](#) M. Zuhair Nashed,Otmar Scherzer,2002 This book contains the proceedings of the Special Session Interaction of Inverse Problems and Image Analysis held at the January 2001 meeting of the AMS in New Orleans LA The common thread among inverse problems signal analysis and image analysis is a canonical problem recovering an object function signal picture from partial or indirect information about the object Both inverse problems and imaging science have emerged in recent years as interdisciplinary research fields with profound applications in many areas of science engineering technology and medicine Research in inverse problems and image processing shows rich interaction with several areas of mathematics and strong links to signal processing variational problems applied harmonic analysis and computational mathematics This volume contains carefully referred and edited original research papers and high level survey papers that provide overview and perspective on the interaction of inverse problems image analysis and medical imaging The book is suitable for graduate students and researchers interested in signal and image processing and medical imaging

[Volterra Equations and Applications](#) C. Corduneanu,I Sandberg,2000-01-10 This volume comprises selected papers presented at the Volterra Centennial Symposium and is dedicated to Volterra and the contribution of his work to the study of systems an important concept in modern engineering Vito Volterra began his study of integral equations at the end of the nineteenth century and this was a significant development in th

[Exponentially Convergent Algorithms for Abstract Differential Equations](#) Ivan Gavrilyuk,Volodymyr Makarov,Vitalii Vasylyk,2011-07-17 This book presents new accurate and efficient exponentially convergent methods for abstract differential equations with unbounded operator coefficients in Banach space These methods are highly relevant for practical scientific computing since the equations under consideration can be seen as the meta models of systems of ordinary differential equations ODE as well as of partial differential equations PDEs describing various applied problems The framework of functional analysis allows one to obtain very general but at the same time transparent algorithms and mathematical results which then can be applied to mathematical models of the real world The problem class includes initial value problems IVP for first order differential equations with constant and variable unbounded operator coefficients in a Banach space the heat equation is a simple example boundary value problems for the second order elliptic differential equation with an operator coefficient e g the

Laplace equation IVPs for the second order strongly damped differential equation as well as exponentially convergent methods to IVPs for the first order nonlinear differential equation with unbounded operator coefficients For researchers and students of numerical functional analysis engineering and other sciences this book provides highly efficient algorithms for the numerical solution of differential equations and applied problems

Applications and Computation of Orthogonal Polynomials Walter Gautschi, Gene H. Golub, Gerhard Opfer, 2012-12-06 The workshop on Applications and Computation of Orthogonal Polynomials took place March 22-28 1998 at the Oberwolfach Mathematical Research Institute It was the first workshop on this topic ever held at Oberwolfach There were 46 participants from 13 countries more than half coming from Germany and the United States and a substantial number from Italy A total of 23 plenary lectures were presented and 4 short informal talks Open problems were discussed during an evening session This volume contains refereed versions of 18 papers presented at or submitted to the conference The theory of orthogonal polynomials as a branch of classical analysis is well established But orthogonal polynomials play also an important role in many areas of scientific computing such as least squares fitting numerical integration and solving linear algebraic systems Though the basic tenets have their roots in 19th century mathematics the use of modern computers has required the development and study of new algorithms that are accurate and robust The computational methods and applications represented in this volume of necessity are incomplete yet sufficiently varied to convey an impression of current activities in this area

Further Progress in Analysis International Society for Analysis, Applications, and Computation. Congress, Heinrich G. W. Begehr, A. Okay Celebi, Robert P. Gilbert, 2009 The ISAAC International Society for Analysis its Applications and Computation Congress which has been held every second year since 1997 covers the major progress in analysis applications and computation in recent years In this proceedings volume plenary lectures highlight the recent research results while 17 sessions organized by well known specialists reflect the state of the art of important subfields This volume concentrates on partial differential equations function spaces operator theory integral transforms and equations potential theory complex analysis and generalizations inverse problems functional differential and difference equations and integrable systems

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