

**Mathematics and Its Applications**

**B. D. Bojanov, H. A. Hakopian  
and A. A. Sahakian**

**Spline Functions and  
Multivariate Interpolations**



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# Spline Functions And Multivariate Interpolations

**Borislav D. Bojanov, H. Hakopian, B.  
Sahakian**



## **Spline Functions And Multivariate Interpolations:**

**Spline Functions and Multivariate Interpolations** Borislav D. Bojanov, H. Hakopian, B. Sahakian, 1993-03-31 This volume provides a comprehensive introduction to the theory of spline functions. Emphasis is given to new developments such as the general Birkhoff type interpolation, the extremal properties of splines, their prominent role in the optimal recovery of functions, and multivariate interpolation by polynomials and splines. The book has thirteen chapters dealing respectively with: interpolation by algebraic polynomials, the space of splines, B-splines, interpolation by spline functions, natural spline functions, perfect splines, monosplines, periodic splines, multivariate B-splines and truncated powers, multivariate spline functions, and divided differences, box splines, multivariate mean value interpolation, multivariate polynomial interpolations arising by hyperplanes, and multivariate pointwise interpolation. Some of the results described are presented as exercises, and hints are given for their solution. For researchers and graduate students whose work involves approximation theory.

*Spline Functions and Multivariate Interpolations* Borislav D. Bojanov, H. Hakopian, B. Sahakian, 2014-03-14 Spline functions entered Approximation Theory as solutions of natural extremal problems. A typical example is the problem of drawing a function curve through given  $n$  points that has a minimal norm of its  $k$ th derivative. Isolated facts about the functions now called splines can be found in the papers of L. Euler, A. Lebesgue, G. Birkhoff, J. Favard, L. Tschakaloff. However, the Theory of Spline Functions has developed in the last 30 years by the effort of dozens of mathematicians. Recent fundamental results on multivariate polynomial interpolation and multivariate splines have initiated a new wave of theoretical investigations and variety of applications. The purpose of this book is to introduce the reader to the theory of spline functions. The emphasis is given to some new developments such as the general Birkhoff's type interpolation, the extremal properties of the splines, and their prominent role in the optimal recovery of functions, multivariate interpolation by polynomials and splines. The material presented is based on the lectures of the authors given to the students at the University of Sofia and Yerevan University during the last 10 years. Some more elementary results are left as exercises, and detailed hints are given.

Spline Functions and Multivariate Interpolations Borislav D. Bojanov, H. Hakopian, B. Sahakian, 2013-06-29 Spline functions entered Approximation Theory as solutions of natural extremal problems. A typical example is the problem of drawing a function curve through given  $n$  points that has a minimal norm of its  $k$ th derivative. Isolated facts about the functions now called splines can be found in the papers of L. Euler, A. Lebesgue, G. Birkhoff, J. Favard, L. Tschakaloff. However, the Theory of Spline Functions has developed in the last 30 years by the effort of dozens of mathematicians. Recent fundamental results on multivariate polynomial interpolation and multivariate splines have initiated a new wave of theoretical investigations and variety of applications. The purpose of this book is to introduce the reader to the theory of spline functions. The emphasis is given to some new developments such as the general Birkhoff's type interpolation, the extremal properties of the splines, and their prominent role in the optimal recovery of functions, multivariate interpolation by polynomials and splines. The material

presented is based on the lectures of the authors given to the students at the University of Sofia and Yerevan University during the last 10 years Some more elementary results are left as exercises and detailed hints are given

**Multivariate Approximation and Splines** Günther Nürnberger, Jochen W. Schmidt, Guido Walz, 2012-12-06 This book contains the refereed papers which were presented at the international conference on Multivariate Approximation and Splines held in Mannheim Germany on September 7-10 1996 Fifty experts from Bulgaria England France Israel Netherlands Norway Poland Switzerland Ukraine USA and Germany participated in the symposium It was the aim of the conference to give an overview of recent developments in multivariate approximation with special emphasis on spline methods The field is characterized by rapidly developing branches such as approximation data fitting interpolation splines radial basis functions neural networks computer aided design methods subdivision algorithms and wavelets The research has applications in areas like industrial production visualization pattern recognition image and signal processing cognitive systems and modeling in geology physics biology and medicine In the following we briefly describe the contents of the papers Exact inequalities of Kolmogorov type which estimate the derivatives of multivariate periodic functions are derived in PICHUGOV These inequalities are applied to the approximation of classes of multivariate periodic functions and to the approximation by quasi polynomials BAINOV DISHLIEV and HRISTOVA investigate initial value problems for non linear impulse differential difference equations which have many applications in simulating real processes By applying iterative techniques sequences of lower and upper solutions are constructed which converge to a solution of the initial value problem

**Multivariate Splines** Charles K. Chui, 1988-01-01 The subject of multivariate splines has become a rapidly growing field of mathematical research The author presents the subject from an elementary point of view that parallels the theory and development of univariate spline analysis To compensate for the missing proofs and details an extensive bibliography has been included There is a presentation of open problems with an emphasis on the theory and applications to computer aided design data analysis and surface fitting Applied mathematicians and engineers working in the areas of curve fitting finite element methods computer aided geometric design signal processing mathematical modelling computer aided design computer aided manufacturing and circuits and systems will find this monograph essential to their research

**Multivariate Spline Functions and Their Applications** Ren-Hong Wang, 2013-03-09 This book deals with the algebraic geometric method of studying multivariate splines Topics treated include the theory of multivariate spline spaces higher dimensional splines rational splines piecewise algebraic variety including piecewise algebraic curves and surfaces and applications in the finite element method and computer aided geometric design Many new results are given Audience This volume will be of interest to researchers and graduate students whose work involves approximations and expansions numerical analysis computational geometry image processing and CAD CAM

Topics in Numerical Analysis P.R. Turner, 2006-11-15

**Rational Approximation and Interpolation** P.R. Graves-Morris, E.B. Saff, R.S. Varga, 2006-11-14

*Recent Progress in Multivariate Approximation* Werner Haussmann, Kurt Jetter, Manfred Reimer, 2012-12-06 These proceedings contain the main topics and results presented at the Fourth International Conference on Multivariate Approximation. The meeting took place during the week of September 24-29, 2000 at the now well known Haus Bommerholz, the guest house of the University of Dortmund. It hosted 43 participants from 16 countries and the program included 9 invited one hour lectures, 21 contributed talks and two problem sessions. The articles collected here are carefully peer refereed and suitably edited for publication. Following the tradition of this series of conferences, the meeting was aimed at advancing selected topics of Multivariate Approximation Theory. These include approximation on compact sets such as spheres, balls or compact homogeneous manifolds, spherical designs and energy functionals, interpolation by radial basis functions and by splines, frame theory and Gabor analysis, refinable function systems and subdivision properties of harmonic, polyharmonic and blending functions, sampling and data compression among others. The editors would like to express their thanks to all who have given their support to the conference and to the preparation of this book. In particular, our thanks go to the Deutsche Forschungsgemeinschaft for their funding of the conference, to the University of Dortmund and to the staff of Haus Bommerholz for their help running the conference, and to the Universities of Dortmund and Duisburg for the financial support of this proceedings volume.

**Multivariate Birkhoff Interpolation** Rudolph A. Lorentz, 2006-11-15 The subject of this book is Lagrange, Hermite and Birkhoff lacunary Hermite interpolation by multivariate algebraic polynomials. It unifies and extends a new algorithmic approach to this subject which was introduced and developed by G. G. Lorentz and the author. One particularly interesting feature of this algorithmic approach is that it obviates the necessity of finding a formula for the Vandermonde determinant of a multivariate interpolation in order to determine its regularity, which formulas are practically unknown anyways, by determining the regularity through simple geometric manipulations in the Euclidean space. Although interpolation is a classical problem, it is surprising how little is known about its basic properties in the multivariate case. The book therefore starts by exploring its fundamental properties and its limitations. The main part of the book is devoted to a complete and detailed elaboration of the new technique. A chapter with an extensive selection of finite elements follows, as well as a chapter with formulas for Vandermonde determinants. Finally, the technique is applied to non-standard interpolations. The book is principally oriented to specialists in the field. However, since all the proofs are presented in full detail and since examples are profuse, a wider audience with a basic knowledge of analysis and linear algebra will draw profit from it. Indeed, the fundamental nature of multivariate interpolation is reflected by the fact that readers coming from the disparate fields of algebraic geometry, singularities of surfaces, finite elements and of CAGD will also all find useful information here.

Multivariate Splines Charles K. Chui, 1988-01-01 Subject of multivariate splines presented from an elementary point of view includes many open problems.

**A Course in Approximation Theory** Elliott Ward Cheney, William Allan Light, 2009-01-13 This textbook is designed for graduate students in mathematics, physics, engineering

and computer science Its purpose is to guide the reader in exploring contemporary approximation theory The emphasis is on multi variable approximation theory i e the approximation of functions in several variables as opposed to the classical theory of functions in one variable Most of the topics in the book heretofore accessible only through research papers are treated here from the basics to the currently active research often motivated by practical problems arising in diverse applications such as science engineering geophysics and business and economics Among these topics are projections interpolation paradigms positive definite functions interpolation theorems of Schoenberg and Micchelli tomography artificial neural networks wavelets thin plate splines box splines ridge functions and convolutions An important and valuable feature of the book is the bibliography of almost 600 items directing the reader to important books and research papers There are 438 problems and exercises scattered through the book allowing the student reader to get a better understanding of the subject

**Topics in Multivariate Approximation** C. K. Chui, L. L. Schumaker, F. I. Utreras, 2014-05-10 Topics in Multivariate Approximation contains the proceedings of an international workshop on multivariate approximation held at the University of Chile in Santiago Chile on December 15 19 1986 Leading researchers in the field discussed several problem areas related to multivariate approximation and tackled topics ranging from multivariate splines and fitting of scattered data to tensor approximation methods and multivariate polynomial approximation Numerical grid generation and finite element methods were also explored along with constrained interpolation and smoothing Comprised of 22 chapters this book first describes the application of Boolean methods of approximation in combination with the theory of right invertible operators to bivariate Fourier expansions The reader is then introduced to ill posed problems in multivariate approximation interpolation of scattered data by radial functions and shape preserving surface interpolation Subsequent chapters focus on approximation by harmonic functions numerical generation of nested series of general triangular grids triangulation methods and inequalities arising from best local approximations in rectangles A bibliography of multivariate approximation concludes the book This monograph will be of interest to mathematicians

**Multivariate Approximation and Splines** Günther Nürnberger, Jochen W. Schmidt, Guido Walz, 1997 This volume presents refereed papers covering a variety of topics in the growing field of multivariate approximation and splines

Complex Harmonic Splines, Periodic Quasi-Wavelets Han-lin Chen, 2012-12-06 This book written by our distinguished colleague and friend Professor Han Lin Chen of the Institute of Mathematics Academia Sinica Beijing presents for the first time in book form his extensive work on complex harmonic splines with applications to wavelet analysis and the numerical solution of boundary integral equations Professor Chen has worked in Approximation Theory and Computational Mathematics for over forty years His scientific contributions are rich in variety and content Through his publications and his many excellent Ph D students he has taken a leadership role in the development of these fields within China This new book is yet another important addition to Professor Chen's quality research in Computational Mathematics In the last several decades the theory of spline functions and their applications have

greatly influenced numerous fields of applied mathematics most notably computational mathematics wavelet analysis and geometric modeling Many books and monographs have been published studying real variable spline functions with a focus on their algebraic analytic and computational properties In contrast this book is the first to present the theory of complex harmonic spline functions and their relation to wavelet analysis with applications to the solution of partial differential equations and boundary integral equations of the second kind The material presented in this book is unique and interesting It provides a detailed summary of the important research results of the author and his group and as well as others in the field

**Advances in Computational Mathematics** Zhongying Chen, Yueshen Li, Charles Micchelli, Yuesheng Xu, 2023-08-25

This volume presents the refereed proceedings of the Guangzhou International Symposium on Computational Mathematics held at the Zhongshan University People's Republic of China. Nearly 90 international mathematicians examine numerical optimization methods, wavelet analysis, computational approximation, numerical solutions of differential and integral equations, numerical linear algebra, inverse and ill-posed problems, geometric modelling, and signal and image processing and their applications. Selected Topics in Approximation and Computation Marek A. Kowalski, Krzysztof A. Sikorski, Frank

their applications      Selected Topics in Approximation and Computation Marek A. Kowalski, Krzysztof A. Sikorski, Frank Stenger, 1995-10-19 Selected Topics in Approximation and Computation is a combination of expositions of basic classical methods of approximation leading to popular splines and new explicit tools of computation including sinc methods elliptic function methods and positive operator approximation methods It also provides an excellent summary of worst case analysis in Information Based Complexity It relates optimal computational methods with the theory of  $s$  numbers and  $m$  widths

**Handbook of Splines** Gheorghe Micula, Sanda Micula, 2012-12-06 The purpose of this book is to give a comprehensive introduction to the theory of spline functions together with some applications to various fields emphasizing the significance of the relationship between the general theory and its applications At the same time the goal of the book is also to provide new material on spline function theory as well as a fresh look at old results being written for people interested in research as well as for those who are interested in applications The theory of spline functions and their applications is a relatively recent field of applied mathematics In the last 50 years spline function theory has undergone a wonderful development with many new directions appearing during this time This book has its origins in the wish to adequately describe this development from the notion of spline introduced by I J Schoenberg 1901 1990 in 1946 to the newest recent theories of spline wavelets or spline fractals Isolated facts about the functions now called splines can be found in the papers of L Euler A Lebesgue G Birkhoff J

**Lp-error Bounds for Multivariate Polynomial Interpolation Schemes** Shayne Waldron, 1995

**Differential and Integral Inequalities** Dorin Andrica, Themistocles M. Rassias, 2019-11-14 Theories methods and problems in approximation theory and analytic inequalities with a focus on differential and integral inequalities are analyzed in this book Fundamental and recent developments are presented on the inequalities of Abel Agarwal Beckenbach Bessel Cauchy Hadamard Chebychev Markov Euler s constant Grothendieck Hilbert Hardy Carleman Landau Kolmogorov Carlson

Bernstein Mordell Gronwall Wirtinger as well as inequalities of functions with their integrals and derivatives Each inequality is discussed with proven results examples and various applications Graduate students and advanced research scientists in mathematical analysis will find this reference essential to their understanding of differential and integral inequalities Engineers economists and physicists will find the highly applicable inequalities practical and useful to their research



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