Birkhoff Interpolation (in one variable)

Birkhoff interpolation is an extension of Hermite interpolation. It involves matching of values and derivatives of a function at certain points without the requirement that the derivatives are consecutive.

Example: find a polynomial $f(x) = c_0 + c_1 x + c_2 x^2 + c_3 x^3$:

$$f(z_1) = a_1, \quad f'(z_1) = a_2, \quad f'(z_2) = a_3 \quad f'''(z_2) = a_4$$

If this equations have unique solution for all distinct $z_1, z_2 \in \Bbbk$ and all $a_1, a_2, a_3, a_4 \in \Bbbk$ the problem $(\mathcal{P}_3, \{0,1\}, \{1,3\})$ is regular.

$$\det \begin{pmatrix} 1 & 0 & 0 & 0 \\ z_1 & 1 & 1 & 0 \\ z_1^2 & 2z_1 & 2z_2 & 0 \\ z_1^3 & 3z_1^2 & 3z_2^2 & 3 \end{pmatrix} = \varphi(z_1, z_2) = 6z_2 - 6z_1$$

?

$$Z(\varphi) := \{(z_1, z_2) : \varphi(z_1, z_2)\} \subseteq \mathcal{H} = \{(z_1, z_2) : z_1 = z_2\}$$

[Birkhoff Interpolation](#)

Walter Gautschi

Birkhoff Interpolation:

 Birkhoff Interpolation G. G. Lorentz,K. Jetter,S. D. Riemenschneider,1984-12-28 This reference book provides the main definitions theorems and techniques in the theory of Birkhoff interpolation by polynomials The book begins with an article by G G Lorentz that discusses some of the important developments in approximation and interpolation in the last twenty years It presents all the basic material known at the present time in a unified manner Topics discussed include applications of Birkhoff interpolation to approximation theory quadrature formulas and Chebyshev systems lacunary interpolation at special knots and an introduction to the theory of Birkhoff interpolation by splines   *Frontiers in Interpolation and Approximation* N. K. Govil,H. N. Mhaskar,Ram N. Mohapatra,Zuhair Nashed,J. Szabados,2006-07-20 Dedicated to the well respected research mathematician Ambikeshwar Sharma Frontiers in Interpolation and Approximation explores approximation theory interpolation theory and classical analysis Written by authoritative international mathematicians this book presents many important results in classical analysis wavelets and interpolati   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 nature of multivariate interpolation is reflected by the fact that readers coming from the disparate fields of algebraic geometry singularities of surfaces of finite elements and of CAGD will also all find useful information here   *Applied and Computational Matrix Analysis* Natália Bebiano,2017-03-01 This volume presents recent advances in the field of matrix analysis based on contributions at the MAT TRIAD 2015 conference Topics covered include interval linear algebra and computational complexity Birkhoff polynomial basis tensors graphs linear pencils K theory and statistic inference showing the ubiquity of matrices in different mathematical areas With a particular focus on matrix and operator theory statistical models and computation the International Conference on Matrix Analysis and its Applications 2015 held in Coimbra Portugal was the sixth in a series of

conferences Applied and Computational Matrix Analysis will appeal to graduate students and researchers in theoretical and applied mathematics physics and engineering who are seeking an overview of recent problems and methods in matrix analysis   *Constructive Approximation* Ronald A. DeVore,George G. Lorentz,1993-11-04 Coupled with its sequel this book gives a connected unified exposition of Approximation Theory for functions of one real variable It describes spaces of functions such as Sobolev Lipschitz Besov rearrangement invariant function spaces and interpolation of operators Other topics include Weierstrauss and best approximation theorems properties of polynomials and splines It contains history and proofs with an emphasis on principal results   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 k 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 multivari ate 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 Birkoff s type interpolation the extremal properties of the splines and their prominant 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 excercises and detailed hints are given   *Approximation Theory and Functional Analysis* ,1979-01-01 Approximation Theory and Functional Analysis   **Walsh Equiconvergence of Complex Interpolating Polynomials** Amnon Jakimovski,Ambikeshwar Sharma,József Szabados,2007-05-16 This book is a collection of the various old and new results centered around the following simple and beautiful observation of J L Walsh If a function is analytic in a finite disc and not in a larger disc then the difference between the Lagrange interpolant of the function at the roots of unity and the partial sums of the Taylor series about the origin tends to zero in a larger disc than the radius of convergence of the Taylor series while each of these operators converges only in the original disc This book will be particularly useful for researchers in approximation and interpolation theory   Automated Deduction in Geometry Jürgen Richter-Gebert,Dongming Wang,2001-09-12 This book constitutes the thoroughly refereed post proceedings of the Third International Workshop on Automated Deduction in Geometry ADG 2000 held in Zurich Switzerland in September 2000 The 16 revised full papers and two invited papers presented were carefully selected for publication during two rounds of reviewing and revision from a total of initially 31 submissions Among the issues addressed are spatial constraint solving automated proving of geometric inequalities algebraic proof semi algebraic proofs geometrical reasoning computational synthetic geometry incidence geometry and nonstandard

geometric proofs   Mathematics from Leningrad to Austin Rudolph A. Lorentz,1997-07-15 This Select a contains approximately two thirds of the papers my 1932 to 1994 These papers are divided into four fields father wrote from The first volume contains the papers on 1 Summability and Number Theory and 2 Interpolation The second volume contains the fields 3 Real and Functional Analysis and 4 Approximation Theory Each of these four groups of papers is introduced by a review of the contents and significance respectively of the impact of these papers The first volume contains in addition an autobiography a complete list of publications a list of doctoral students and four unpublished essays on mathematics in general a A report on the University of Leningrad b On the work of the mathematical mind c Proofs in Mathematics d About Mathematical books The report on the University of Leningrad written in the late 40 s is a unique historical document which is still of current interest for several reasons It is of interest for professional reasons since it contains a com plete description of a mathematics majors curriculum through his entire course of studies From it one can see both the changes and invariants of course material as well as the students course load Then one can also see the consequences of admittedly extreme political intervention in uni versity affairs Today we use the term politically correct but in those times being politically correct was a matter of life and death   **Fundamentals of Approximation Theory** Hrushikesh Narhar Mhaskar,Devidas V. Pai,2000 The field of approximation theory has become so vast that it intersects with every other branch of analysis and plays an increasingly important role in applications in the applied sciences and engineering Fundamentals of Approximation Theory presents a systematic in depth treatment of some basic topics in approximation theory designed to emphasize the rich connections of the subject with other areas of study With an approach that moves smoothly from the very concrete to more and more abstract levels this text provides an outstanding blend of classical and abstract topics The first five chapters present the core of information that readers need to begin research in this domain The final three chapters the authors devote to special topics splined functions orthogonal polynomials and best approximation in normed linear spaces that illustrate how the core material applies in other contexts and expose readers to the use of complex analytic methods in approximation theory Each chapter contains problems of varying difficulty including some drawn from contemporary research Perfect for an introductory graduate level class Fundamentals of Approximation Theory also contains enough advanced material to serve more specialized courses at the doctoral level and to interest scientists and engineers

Analysis and Applications H. P. Dikshit,Pawan K. Jain,2003-01-29 Analysis and its applications have been major areas for research in mathematics and allied fields The fast growing power of computation has made a significant and useful impact in these areas This has lead to computational analysis and the emergence of fields like Bezier Bernstein methods for computer aided geometric design constructive approximation and wavelets and even computational harmonic analysis Analysis and Applications consists of research articles including a few survey articles by eminent mathematicians projecting trends in constructive and computational approximation summability theory optimal control and theory and applications of function

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resource for instructors **Encyclopaedia of Mathematics** Michiel Hazewinkel,2013-12-20 Autonomous Trajectory Planning and Guidance Control for Launch Vehicles Zhengyu Song,Dangjun Zhao,Stephan Theil,2023-04-15 This open access book highlights the autonomous and intelligent flight control of future launch vehicles for improving flight autonomy to plan ascent and descent trajectories onboard and autonomously handle unexpected events or failures during the flight Since the beginning of the twenty first century space launch activities worldwide have grown vigorously Meanwhile commercial launches also account for the booming trend Unfortunately the risk of space launches still exists and is gradually increasing in line with the rapidly rising launch activities and commercial rockets In the history of space launches propulsion and control systems are the two main contributors to launch failures With the development of information technologies the increase of the functional density of hardware products the application of redundant or fault tolerant solutions and the improvement of the testability of avionics the launch losses caused by control systems exhibit a downward trend and the failures induced by propulsion systems become the focus of attention Under these failures the autonomous planning and guidance control may save the missions This book focuses on the latest progress of relevant projects and academic studies of autonomous guidance especially on some advanced methods which can be potentially real time implemented in the future control system of launch vehicles In Chapter 1 the prospect and technical challenges are summarized by reviewing the development of launch vehicles Chapters 2 to 4 mainly focus on the flight in the ascent phase in which the autonomous guidance is mainly reflected in the online planning Chapters 5 and 6 mainly discuss the powered descent guidance technologies Finally since aerodynamic uncertainties exert a significant impact on the performance of the ascent landing guidance control systems the estimation of aerodynamic parameters which are helpful to improve flight autonomy is discussed in Chapter 7 The book serves as a valuable reference for researchers and engineers working on launch vehicles It is also a timely source of information for graduate students interested in the subject *I. J. Schoenberg Selected Papers* Boor,2013-12-11 **Approximation Theory** George Anastassiou,1992-04-24 Contains the proceedings of the March 1991 annual conference of the Southeastern Approximation Theorists in Memphis Tenn The 34 papers discuss topics of interest to graduate and professional numerical analysts applied and industrial mathematicians engineers and other scientists such as splines **Approximation Theory and Spline Functions** S.P. Singh,J.H.W. Burry,B. Watson,2012-12-06 A NATO Advanced Study Institute on Approximation Theory and Spline Functions was held at Memorial University of Newfoundland during August 22 September 2 1983 This volume consists of the Proceedings of that Institute These Proceedings include the main invited talks and contributed papers given during the Institute The aim of these lectures was to bring together Mathematicians Physicists and Engineers working in the field The lectures covered a wide range including 1ultivariate Approximation Spline Functions Rational Approximation Applications of Elliptic Integrals and Functions in the Theory of Approximation and Pade Approximation We express our sincere thanks to Professors E W Cheney J Meinguet J M Phillips and

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Table of Contents Birkhoff Interpolation

Birkhoff Interpolation Introduction

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