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Adhemar Bultheel

**Laurent Series and their
Padé Approximations**

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Laurent Series And Their Pade Approximations Operator Theory Advances And Applications

**Roland Hagen, Steffen Roch, Bernd
Silbermann**



Laurent Series And Their Pade Approximations Operator Theory Advances And Applications:

Laurent Series and their Padé Approximations A. Bultheel, 2012-12-06 The Pade approximation problem is roughly speaking the local approximation of analytic or meromorphic functions by rational ones It is known to be important to solve a large scale of problems in numerical analysis linear system theory stochastics and other fields There exists a vast literature on the classical Pade problem However these papers mostly treat the problem for functions analytic at 0 or in a purely algebraic sense they treat the approximation of formal power series For certain problems however the Pade approximation problem for formal Laurent series rather than for formal power series seems to be a more natural basis In this monograph the problem of Laurent Pade approximation is central In this problem a ratio of two Laurent polynomials is sought which approximates the two directions of the Laurent series simultaneously As a side result the two point Pade approximation problem can be solved In that case two series are approximated one is a power series in z and the other is a power series in z^{-1} So we can approximate two not necessarily different functions one at zero and the other at infinity **Nonlinear**

Numerical Methods and Rational Approximation II A. Cuyt, 2012-12-06 These are the proceedings of the international conference on Nonlinear numerical methods and Rational approximation II organised by Annie Cuyt at the University of Antwerp Belgium 05 11 September 1993 It was held for the third time in Antwerp at the conference center of UIA after successful meetings in 1979 and 1987 and an almost yearly tradition since the early 70 s The following figures illustrate the growing number of participants and their geographical dissemination In 1993 the Belgian scientific committee consisted of A Bultheel Leuven A Cuyt Antwerp J Meinguet Louvain la Neuve and J P Thiran Namur The conference focused on the use of rational functions in different fields of Numerical Analysis The invited speakers discussed Orthogonal polynomials D S Lubinsky Rational interpolation M Gutknecht Rational approximation E B Saff Pade approximation A Gonchar and Continued fractions W B Jones In contributed talks multivariate and multidimensional problems applications and implementations of each main topic were considered To each of the five main topics a separate conference day was devoted and a separate proceedings chapter compiled accordingly In this way the proceedings reflect the organisation of the talks at the conference Nonlinear numerical methods and rational approximation may be a narrow field for the outside world but it provides a vast playground for the chosen ones It can fascinate specialists from Moscow to South Africa from Boulder in Colorado and from sunny Florida to Zurich in Switzerland The Schur Algorithm, Reproducing Kernel Spaces and System Theory Daniel

Alpay, 2001 Looks at matrix valued Schur functions and their applications from the unifying point of view of space with reproducing kernels to study the relationship between the modeling of time invariant dissipative linear systems and the theory of linear operators Chapters cover reproducing kernel spaces theory of linear systems the Schur algorithm and the inverse scattering problem operator models interpolation the indefinite case the non stationary case and Riemann surfaces Originally published in French by Societe Mathematique de France 1998 Translated from the French by Stephen S Wilson

Author information is not given c Book News Inc Continued Fractions and Orthogonal Functions S. Clement Cooper, 2020-12-17 This reference the proceedings of a research conference held in Loen Norway contains information on the analytic theory of continued fractions and their application to moment problems and orthogonal sequences of functions Uniting the research efforts of many international experts this volume treats strong moment problems orthogonal polynomials and Laurent polynomials analyses sequences of linear fractional transformations presents convergence results including truncation error bounds considers discrete distributions and limit functions arising from indeterminate moment problems discusses Szego polynomials and their applications to frequency analysis describes the quadrature formula arising from q starlike functions and covers continued fractional representations for functions related to the gamma function This resource is intended for mathematical and numerical analysts applied mathematicians physicists chemists engineers and upper level undergraduate and graduate students in these disciplines Topics in Matrix and Operator Theory H. Bart, I. Gohberg, Kaashoek, 2013-11-22 Operator Theory and Complex Analysis J. K. Aggarwal, 1993-01-22 This volume presents a set of papers based on the proceedings of the NATO Advanced Research Workshop on Multisensor Fusion for Computer Vision held in Grenoble France in June 1989 The workshop focused on the fusion or integration of sensor information to achieve the optimum interpretation of a scene The papers cover a broad range of topics including principles and issues in multisensor fusion information fusion for navigation multisensor fusion for object recognition network approaches to multisensor fusion computer architectures for multisensor fusion and applications of multisensor fusion The authors have documented their own research and in so doing have presented the state of the art in the field Each author is a recognized leader in his or her area in the academic governmental or industrial research community Several contributors present novel points of view on the integration of information The book gives a representative picture of current progress in multisensor fusion for computer vision among the leading research groups in Europe and North America **Partially Specified Matrices and Operators: Classification, Completion, Applications** Israel Gohberg, Marinus Kaashoek, Frederik Van Schagen, 2012-12-06 This book is devoted to a new direction in linear algebra and operator theory that deals with the invariants of partially specified matrices and operators and with the spectral analysis of their completions The theory developed centers around two major problems concerning matrices of which part of the entries are given and the others are unspecified The first is a classification problem and aims at a simplification of the given part with the help of admissible similarities The results here may be seen as a far reaching generalization of the Jordan canonical form The second problem is called the eigenvalue completion problem and asks to describe all possible eigenvalues and their multiplicities of the matrices which one obtains by filling in the unspecified entries Both problems are also considered in an infinite dimensional operator framework A large part of the book deals with applications to matrix theory and analysis namely to stabilization problems in mathematical system theory to problems of Wiener Hopf factorization and interpolation for matrix polynomials

and rational matrix functions to the Kronecker structure theory of linear pencils and to non everywhere defined operators The eigenvalue completion problem has a natural associated inverse which appears as a restriction problem The analysis of these two problems is often simpler when a solution of the corresponding classification problem is available **Spectral**

Theory of Approximation Methods for Convolution Equations Roland Hagen, Steffen Roch, Bernd

Silbermann, 2012-12-06 The aim of the present book is to propose a new algebraic approach to the study of norm stability of operator sequences which arise for example via discretization of singular integral equations on composed curves A wide variety of discretization methods including quadrature rules and spline or wavelet approximations is covered and studied from a unique point of view The approach takes advantage of the fruitful interplay between approximation theory concrete operator theory and local Banach algebra techniques The book is addressed to a wide audience in particular to mathematicians working in operator theory and Banach algebras as well as to applied mathematicians and engineers interested in theoretical foundations of various methods in general use particularly splines and wavelets The exposition contains numerous examples and exercises Students will find a large number of suggestions for their own investigations

Publicationes mathematicae Kossuth Lajos Tudományegyetem. Matematikai Intézet, 1988

Interpolation of Rational Matrix Functions Joseph Ball, I. Gohberg, Rodman, 2013-11-11 This book aims to present the theory of interpolation for rational matrix functions as a recently matured independent mathematical subject with its own problems methods and applications The authors decided to start working on this book during the regional CBMS conference in Lincoln Nebraska organized by F Gilfeather and D Larson The principal lecturer J William Helton presented ten lectures on operator and systems theory and the interplay between them The conference was very stimulating and helped us to decide that the time was ripe for a book on interpolation for matrix valued functions both rational and non rational When the work started and the first partial draft of the book was ready it became clear that the topic is vast and that the rational case by itself with its applications is already enough material for an interesting book In the process of writing the book methods for the rational case were developed and refined As a result we are now able to present the rational case as an independent theory After two years a major part of the first draft was prepared Then a long period of revising the original draft and introducing recently acquired results and methods followed There followed a period of polishing and of 25 chapters and the appendix commuting at various times somewhere between Williamsburg Blacksburg Tel Aviv College Park and Amsterdam sometimes with one or two of the authors **Modern Mathematical Methods in Transport Theory** Greenberg, Polewczak, 2013-11-22 The

Eleventh International Transport Theory Conference and Symposium in honor of the sixty fifth birthday of Kenneth Case and the sixtieth birthday of Paul Zweifel was held in Blacksburg Virginia during May 22 26 1989 on the campus of Virginia Polytechnic Institute and State University Virginia Tech This volume consists of a selection of the invited papers delivered at the Conference and represents a cross section of the research currently being carried out in the field of transport theory The

volume is divided into two sections The Symposium lectures are intended each to summarize an important aspect of transport theory as well as to present timely new results of the author's research interest The Conference lectures are contributions of each author on his current research As has been the custom in this series of conferences each lecturer was invited to participate by the organizing committee of the Conference W Greenberg Virginia Tech chairman V Boffi Università di Firenze N Corngold California Institute of Technology B Ganapol University of Arizona N McCormick University of Washington P Nelson Texas Tech G Pomraning University of California Los Angeles The Eleventh International Transport Theory Conference was funded by generous contributions from Science Applications International Corporation R Beyster president and from Virginia Polytechnic Institute and State University Conference participants and we believe researchers in this and related areas are indebted to these organizations We would like to thank Lamberto Rondoni in the graduate program at Virginia Tech for proofreading manuscripts of all the Italian contributors

Time-Variant Systems and Interpolation

I. Gohberg, 2012-12-06 **Measures of Noncompactness and Condensing Operators**

Akhmerov, Kamenskii, Potapov, Rodkina, Sadovskii, 2013-11-21 A condensing or densifying operator is a mapping under which the image of any set is in a certain sense more compact than the set itself The degree of noncompactness of a set is measured by means of functions called measures of noncompactness The contractive maps and the compact maps i.e. in this Introduction the maps that send any bounded set into a relatively compact one in the main text the term compact will be reserved for the operators that in addition to having this property are continuous i.e. in the authors terminology for the completely continuous operators are condensing For contractive maps one can take as measure of noncompactness the diameter of a set while for compact maps can take the indicator function of a family of non relatively compact sets The operators of the form $F \times G \times x$ where G is contractive in the first argument and compact in the second are also condensing with respect to some natural measures of noncompactness The linear condensing operators are characterized by the fact that almost all of their spectrum is included in a disc of radius smaller than one The examples given above show that condensing operators are a sufficiently typical phenomenon in various applications of functional analysis for example in the theory of differential and integral equations As it turns out the condensing operators have properties similar to the compact ones

Revue Roumaine de Mathématiques Pures Et Appliquées, 1989 **One-Dimensional Linear Singular Integral Equations** I. Gohberg, N. Krupnik, 2012-12-06 This book is an introduction to the theory of linear one dimensional singular

integral equations It is essentially a graduate textbook Singular integral equations have attracted more and more attention because on one hand this class of equations appears in many applications and on the other it is one of a few classes of equations which can be solved in explicit form In this book material of the monograph 2 of the authors on one dimensional singular integral operators is widely used This monograph appeared in 1973 in Russian and later in German translation 3 In the final text version the authors included many addenda and changes which have in essence changed character structure

and contents of the book and have in our opinion made it more suitable for a wider range of readers Only the case of singular integral operators with continuous coefficients on a closed contour is considered herein The case of discontinuous coefficients and more general contours will be considered in the second volume We are grateful to the editor Professor G Heinig of the volume and to the translators Dr B Luderer and Dr S Roch and to G Lillack who did the typing of the manuscript for the work they have done on this volume

Congressus Numerantium ,1970 Mathematical Reviews ,2005-06 *Continued Fractions and Padé Approximants* Claude Brezinski,1990 Padéacute approximants and continued fractions are typical examples of old areas of mathematics continued fractions can be traced back to Euclid s g c d algorithm more than 2000 years ago which are again very much alive This is due to their numerous applications in number theory cryptography statistics numerical analysis special functions digital filtering signal processing fractals fluid mechanics theoretical physics chemistry engineering etc This renewal of interest is also due to their intimate connection with other important topics such as orthogonal polynomials another old subject now again in full vitality rational approximation Gaussian quadratures extrapolation and convergence acceleration methods differential equations etc Subject Guide to Books in Print ,1991 **International Books in Print, 1995** Barbara Hopkinson,[Anonymus AC01401231],1995

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