

**POLYNOMIAL
OPERATOR EQUATIONS**

in Abstract Spaces and Applications

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Polynomial Operator Equations In Abstract Spaces And Applications

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Polynomial Operator Equations In Abstract Spaces And Applications:

Polynomial Operator Equations in Abstract Spaces and Applications Ioannis K. Argyros, 2020-10-07 Polynomial operators are a natural generalization of linear operators. Equations in such operators are the linear space analog of ordinary polynomials in one or several variables over the fields of real or complex numbers. Such equations encompass a broad spectrum of applied problems including all linear equations. Often the polynomial nature of many nonlinear problems goes unrecognized by researchers. This is more likely due to the fact that polynomial operators unlike polynomials in a single variable have received little attention. Consequently this comprehensive presentation is needed benefiting those working in the field as well as those seeking information about specific results or techniques. **Polynomial Operator Equations in Abstract Spaces and Applications** an outgrowth of fifteen years of the author's research work presents new and traditional results about polynomial equations as well as analyzes current iterative methods for their numerical solution in various general space settings. Topics include Special cases of nonlinear operator equations. Solution of polynomial operator equations of positive integer degree n . Results on global existence theorems not related with contractions. Galois theory. Polynomial integral and polynomial differential equations appearing in radiative transfer, heat transfer, neutron transport, electromechanical networks, elasticity and other areas. Results on the various Chandrasekhar equations. Weierstrass theorem. Matrix representations. Lagrange and Hermite interpolation. Bounds of polynomial equations in Banach space, Banach algebra and Hilbert space. The materials discussed can be used for the following studies: Advanced numerical analysis, Numerical functional analysis, Functional analysis, Approximation theory, Integral and differential equation. **Operator Theory and Its Applications** Alexander G. Ramm, P. N. Shivakumar, Abraham Vilgelmovich Strauss, 2000 Together with the papers on the abstract operator theory are many papers on the theory of differential operators, boundary value problems, inverse scattering and other inverse problems and on applications to biology, chemistry, wave propagation and many other areas. **BOOK JACKET**

Handbook of Analytic Computational Methods in Applied Mathematics George Anastassiou, 2019-06-03 Working computationally in applied mathematics is the very essence of dealing with real world problems in science and engineering. Approximation theory on the borderline between pure and applied mathematics has always supplied some of the most innovative ideas, computational methods and original approaches to many types of problems. The f *Numerical Methods for Equations and its Applications* Ioannis K. Argyros, Yeol J. Cho, Saïd Hilout, 2012-06-05 This book introduces advanced numerical functional analysis to beginning computer science researchers. The reader is assumed to have had basic courses in numerical analysis, computer programming, computational linear algebra and an introduction to real, complex and functional analysis. Although the book is of a theoretical nature, each chapter contains *Efficient Methods for Solving Equations and Variational Inequalities* Ioannis K. Argyros, Saïd Hilout, 2009 Newton's Method: an Updated Approach of Kantorovich's Theory José Antonio Ezquerro Fernández, Miguel Ángel Hernández Verón, 2017-07-05 This book shows the importance of

studying semilocal convergence in iterative methods through Newton's method and addresses the most important aspects of the Kantorovich's theory including implicated studies Kantorovich's theory for Newton's method used techniques of functional analysis to prove the semilocal convergence of the method by means of the well known majorant principle To gain a deeper understanding of these techniques the authors return to the beginning and present a deep detailed approach of Kantorovich's theory for Newton's method where they include old results for a historical perspective and for comparisons with new results refine old results and prove their most relevant results where alternative approaches leading to new sufficient semilocal convergence criteria for Newton's method are given The book contains many numerical examples involving nonlinear integral equations two boundary value problems and systems of nonlinear equations related to numerous physical phenomena The book is addressed to researchers in computational sciences in general and in approximation of solutions of nonlinear problems in particular **L'Analyse Numérique Et la Théorie de L'approximation** ,2001

Communications on Applied Nonlinear Analysis ,2001 **Glasnik Matematicki** ,1992 Applied Mathematics Reviews George A. Anastassiou,2000 Applied mathematics connects the mathematical theory to the reality by solving real world problems and shows the power of the science of mathematics greatly improving our lives Therefore it plays a very active and central role in the scientific world This volume contains 14 high quality survey articles incorporating original results and describing the main research activities of contemporary applied mathematics written by top people in the field The articles have been written in review style so that the researcher can have a quick and thorough view of what is happening in the main subfields of applied mathematics **Applied Mathematics Reviews, Volume 1** George A. Anastassiou,2000-06-09 Applied mathematics connects the mathematical theory to the reality by solving real world problems and shows the power of the science of mathematics greatly improving our lives Therefore it plays a very active and central role in the scientific world This volume contains 14 high quality survey articles incorporating original results and describing the main research activities of contemporary applied mathematics written by top people in the field The articles have been written in review style so that the researcher can have a quick and thorough view of what is happening in the main subfields of applied mathematics Computation and Applied Mathematics ,1999 Panamerican Mathematical Journal ,2001

Existence Families, Functional Calculi and Evolution Equations Ralph DeLaubenfels,2006-11-15 This book presents an operator theoretic approach to ill posed evolution equations It presents the basic theory and the more surprising examples of generalizations of strongly continuous semigroups known as existent families and regularized semigroups These families of operators may be used either to produce all initial data for which a solution in the original space exists or to construct a maximal subspace on which the problem is well posed Regularized semigroups are also used to construct functional or operational calculi for unbounded operators The book takes an intuitive and constructive approach by emphasizing the interaction between functional calculus constructions and evolution equations One thinks of a semigroup generated by A as

etA and thinks of a regularized semigroup generated by A as etA g A producing solutions of the abstract Cauchy problem for initial data in the image of g A Material that is scattered throughout numerous papers is brought together and presented in a fresh organized way together with a great deal of new material

Equations with Involutive Operators Nikolai Karapetiants, Stefan Samko, 2012-12-06 Equations with Involutive Operators demonstrates an important interplay between abstract and concrete operator theory The focus is on the investigation of a number of equations which while seemingly different are all unified by the same idea they are all realizations of some operator equations in Banach spaces One permeating theme in these equations involves the role of the Fredholm property The text is carefully written self contained and covers a broad range of topics and results Key ideas are developed in a step by step approach beginning with required background and historical material and culminating in the final chapters with state of the art topics Experts in operator theory integral equations and function theory as well as students in these areas will find open problems for further investigations The book will also be useful to engineers using operator theory and integral equation techniques Good examples bibliography and index make this text a valuable classroom or reference resource *Mathematical Sciences Research Hot-line* ,2001 *Computation and Applied Mathematics* ,2000 **Soochow Journal of Mathematics** ,2000

The Cumulative Book Index ,1999 **Abstract Algebra with Applications** Karlheinz Spindler, 2018-05-04 A comprehensive presentation of abstract algebra and an in depth treatment of the applications of algebraic techniques and the relationship of algebra to other disciplines such as number theory combinatorics geometry topology differential equations and Markov chains

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