



Optimal Quadrature Rules for Numerical Solution of the Nonlinear Fredholm Integral Equations

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Abstract. In this paper, an iterative method of successive approximations to the approximate solution of nonlinear Hammerstein- Fredholm integral equations using an optimal quadrature formula for classes of functions of Lipschitz types is provided. Also, the convergence analysis and numerical stability of the proposed method are proved. Finally, some numerical examples verify the theoretical results and show the accuracy of the method.

1. Introduction

In this investigation, we propose a numerical method for the following nonlinear Hammerstein- Fredholm integral equation of the second kind

$$x(t) = f(t) + \lambda \int_a^b K(t, s)g(s, x(s))ds, \quad t \in [a, b], \quad (1)$$

where $x(t)$ is an unknown function on $[a, b]$ and also, $f(t)$, $K(t, s)$ are known functions on $[a, b]$, $[a, b] \times [a, b]$, respectively.

The mathematical modeling of physical phenomena, many problems in applied mathematics, engineering, mechanics, mathematical physics and many other fields can be transformed into the second-kind of integral equations [8, 11, 15, 21, 22, 24]. There are many numerical methods for solving these equations. The Galerkin and collocation methods are the two commonly used methods for the numerical solutions of these equations [2, 9]. Numerical solutions of linear and nonlinear integral equations have been presented, including, block-pulse functions (BPFs)[7, 17], degenerate kernel method [1], triangular functions (TFs)[10], Chebyshev polynomials [31], Taylor-series expansion method [16], Least squares approximation method[28], operational matrices [27], Bernoulli polynomials [4], B-spline wavelets [19] and wavelet method [3, 20]. Classical theorems on the existence and uniqueness of the solution of nonlinear integral equations can be found in [11, 29]. Existence results for functional integral equations are obtained using the measure of noncompactness and Darbo conditions in [14] and [18] respectively. The method of

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Optimal Solution Of Nonlinear Equations

K. Sikorski



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Optimal Solution of Nonlinear Equations University of Utah. Dept. of Computer Science. (UTAHCS), K. Sikorski, 1985

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Solution of Nonlinear Equations Krzysztof Aleksander Sikorski, 1982 **Optimal Solution of Nonlinear Equations**

Satisfying a Lipschitz Condition K. Sikorski, 1983 Scientific Computing with MATLAB Dingyu Xue, YangQuan Chen, 2018-09-03 *Scientific Computing with MATLAB* Second Edition improves students ability to tackle mathematical problems It helps students understand the mathematical background and find reliable and accurate solutions to mathematical problems with the use of MATLAB avoiding the tedious and complex technical details of mathematics This edition retains the structure of its predecessor while expanding and updating the content of each chapter The book bridges the gap between problems and solutions through well grouped topics and clear MATLAB example scripts and reproducible MATLAB generated plots Students can effortlessly experiment with the scripts for a deep hands on exploration Each chapter also includes a set of problems to strengthen understanding of the material **Industrial**

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Numerical Methods for Unconstrained Optimization and Nonlinear Equations J. E. Dennis, Jr.,Robert B. Schnabel,1996-12-01 A complete state of the art description of the methods for unconstrained optimization and systems of nonlinear equations ASME Technical Papers ,1983 Precision Engineering and Non-Traditional Machining Jian Hua Wang,Chang Fu Zhang,Xiao Li Jin,Jin Long Zou,2011-11-29 Selected peer reviewed papers from the 2011 International Conference on Precision Engineering and Non Traditional Machining PENTM 2011 December 9 11 2011 Xi an China SSRI Workshop Series ,1961 **IEEE/SICE/RSJ International Conference on Multisensor Fusion and Integration for Intelligent Systems** ,1999 **Routing and Dimensioning in Circuit-switched Networks** André Girard,1990 **Government Reports Announcements & Index** ,1988-11 *International Aerospace Abstracts* ,1980

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