



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 solutions 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

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

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 [13, 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

**Matthew Ellis, Jinfeng Liu, Panagiotis D.
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Optimal Solution of Nonlinear Equations University of Utah. Dept. of Computer Science. (UTAHCS),K. Sikorski,1985

Optimal Solution of Nonlinear Equations Krzysztof A. Sikorski,2001 Optimal Solution of Nonlinear Equations is a text monograph designed to provide an overview of optimal computational methods for the solution of nonlinear equations fixed points of contractive and noncontractive mapping and for the computation of the topological degree It is of interest to any reader working in the area of Information Based Complexity The worst case settings are analyzed here Several classes of functions are studied with special emphasis on tight complexity bounds and methods which are close to or achieve these bounds Each chapter ends with exercises including companies and open ended research based exercises

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Scientific and Technical Aerospace Reports ,1968 **Economic Model Predictive Control** Matthew Ellis,Jinfeng Liu,Panagiotis D. Christofides,2016-07-27 This book presents general methods for the design of economic model predictive control EMPC systems for broad classes of nonlinear systems that address key theoretical and practical considerations including recursive feasibility closed loop stability closed loop performance and computational efficiency

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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 [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 [Routing and Dimensioning in Circuit-switched Networks](#) André Girard,1990 [Journal of Mechanisms, Transmissions, and Automation in Design](#) ,1984 [Introduction to Methods for Nonlinear Optimization](#) Luigi Grippo,Marco Sciandrone,2023-05-27 This book has two main objectives to provide a concise introduction to nonlinear optimization methods which can be used as a textbook at a graduate or upper undergraduate level to collect and organize selected important topics on optimization algorithms not easily found in textbooks which can provide material for advanced courses or can serve as a reference text for self study and research The basic material on unconstrained and constrained optimization is organized into two blocks of chapters basic theory and optimality conditions unconstrained and constrained algorithms These topics are treated in short chapters that contain the most important results in theory and algorithms in a way that in the authors experience is suitable

for introductory courses A third block of chapters addresses methods that are of increasing interest for solving difficult optimization problems Difficulty can be typically due to the high nonlinearity of the objective function ill conditioning of the Hessian matrix lack of information on first order derivatives the need to solve large scale problems In the book various key subjects are addressed including exact penalty functions and exact augmented Lagrangian functions non monotone methods decomposition algorithms derivative free methods for nonlinear equations and optimization problems The appendices at the end of the book offer a review of the essential mathematical background including an introduction to convex analysis that can make part of an introductory course **Comprehensive Dissertation Index**, 1984 Vols for 1973 include the following subject areas Biological sciences Agriculture Chemistry Environmental sciences Health sciences Engineering Mathematics and statistics Earth sciences Physics Education Psychology Sociology Anthropology History Law political science Business economics Geography regional planning Language literature Fine arts Library information science Mass communications Music Philosophy and Religion *Kyōto Teikoku Daigaku Kōka Daigaku kiyō* Kyōto Daigaku. Kōgakubu, 1978 Optimal Asynchronous Newton Method for the Solution of Nonlinear Equations A. Bojanczyk, 1983

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