Article

Hammerstein Nonlinear Integral Equations and Iterative Methods for the Computation of Common Fixed Points

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Abstract: In the first part of this article, a special type of Hammerstein nonlinear integral equation is studied. A theorem of the existence of solutions is given in the framework of $\mathcal{L}^2$-spaces. Afterwards, an iterative method for the resolution of this kind of equations is considered, and the convergence of this algorithm towards a solution of the equation is proved. The rest of the paper considers two modifications of the algorithm. The first one is devoted to the sought of common fixed points of a family of nearly asymptotically nonexpansive mappings. The second variant focuses on the search of common fixed points of a finite number of nonexpansive operators. The characteristics of convergence of these methods are studied in the context of uniformly convex Banach spaces. The iterative scheme is applied to approach the common solution of three nonlinear integral equations of Hammerstein type.

Keywords: Hammerstein integral equations; common fixed points; nonexpansive maps; nearly asymptotically nonexpansive mappings; iterative methods

MSC: 47H09; 47H30; 26A18; 31A10; 31B10

1. Introduction

A. Hammerstein introduced, in the reference [1], a new type of nonlinear integral equation, given by the expression:

$$f(x) + \int_a^b k(x,y)\psi(y, f(y))dy = 0,$$

for $x \in [a, b]$ and $k(x, y)$ and $\psi(x, y)$ given functions. Equations of this kind appear in a great number of fields of physics, especially in electro-magnetic fluid dynamics. Similar to almost every integral equation, it can be reformulated in terms of a problem of ordinary or partial differential equations.

Hammerstein considered as hypotheses that the operator associated to k is symmetric and positive, and ψ is such that

$$|\psi(x, y)| \le C_1 |y| + C_2,$$

where $C_1, C_2 \ge 0$. He proved that, if $C_1 < \lambda$, where λ is the first eigenvalue of the kernel, and k and ψ are continuous functions, then the equation has a continuous solution. If, in addition, the mapping $\psi(x, \cdot)$ is non-decreasing for any $x \in (a, b)$, the solution is unique. Brézis and Browder gave in the reference [2] sufficient conditions for the existence and uniqueness of solution of Hammerstein equations in $\mathcal{L}^p$-spaces. For instance, they proved that, if $k(x, y)$ and $\psi(x, y)$ are such that

Methods In Nonlinear Integral Equations

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Dajun Guo,Yeol Je Cho,Jiang Zhu,2004 Special Interest Categories Pure and applied mathematics physics optimisation and control mechanics and engineering nonlinear programming economics finance transportation and elasticity The usual method used in studying nonlinear problems such as topological method variational method and others are generally only suited to the nonlinear problems with continuity and compactness However a lots of the problems appeared in theory and applications have no continuity and compactness For example differential equations and integral equations in infinite dimensional spaces various equations defined on unbounded region are generally having no compactness The problems can been divided into three types as follows 1 Without using compact conditions but only using some inequalities related to some ordering the existence and uniqueness of the fixed point for increasing operators decreasing operators and mixed monotone operators and the convergence of the iterative sequence are obtained Also these results have been used to nonlinear integral equations defined on unbounded regions 2 Without using continuity conditions but only using a very relaxed weakly compact conditions some new fixed point theorem of increasing operators are obtained We have applied these results to nonlinear equations with discontinuous terms 3 They systemly use the partial ordering methods to nonlinear integro differential equations include impulsive type in Banach space **Introduction to Nonlinear Differential and Integral Equations** Harold Thayer Davis,1962-01-01 Topics covered include differential equations of the 1st order the Riccati equation and existence theorems 2nd order equations elliptic integrals and functions nonlinear mechanics nonlinear integral equations more Includes 137 problems   A First Course in Integral Equations Abdul-Majid Wazwaz,1997 This book presents the subject of integral equations in an accessible manner for a variety of applications Emphasis is placed on understanding the subject while avoiding the abstract and compact theorems A distinctive feature of the book is that it introduces the recent powerful and reliable developments in this field which are not covered in traditional texts The newly developed decomposition method the series solution method and the direct computation method are thoroughly implemented which allows the topic to be far more accessible The book also includes some of the traditional techniques for comparison Using the newly developed methods the author successfully handles Fredholm and Volterra integral equations singular integral equations integro differential equations and nonlinear integral equations with promising results for linear and nonlinear models Many examples are given to introduce the material in a clear and thorough fashion In addition many exercises are provided to build confidence ease and skill in using the new methods This book may be used as a text for advanced undergraduates and graduate students in mathematics and scientific areas and as a work of reference for research study of differential equations and numerical analysis   *Topological Methods in the Theory of Nonlinear Integral Equations* M. A. Krasnosel'Shu,1964   **A Bibliography On: "Methods for Solving Integral Equations": Subject listing** Ben Noble,Benjamin Noble,1971   **Topological methods in the theory of nonlinear integral equations** J. Burlak,1964   Topological methods in the theory of nonlinear integral equations M. A. Krasnosel'skii,1963   *Topological Methods in*

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The book delves into Methods In Nonlinear Integral Equations. Methods In Nonlinear Integral Equations is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Methods In Nonlinear Integral Equations, encompassing both the fundamentals and more intricate discussions.

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   - Chapter 1: Introduction to Methods In Nonlinear Integral Equations
   - Chapter 2: Essential Elements of Methods In Nonlinear Integral Equations
   - Chapter 3: Methods In Nonlinear Integral Equations in Everyday Life
   - Chapter 4: Methods In Nonlinear Integral Equations in Specific Contexts
   - Chapter 5: Conclusion

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