

# NONLINEAR VOLTERRA INTEGRAL EQUATIONS WITH POSITIVE DEFINITE KERNELS

OLOF J. STAFFANS

**ABSTRACT.** Conditions are given for the asymptotic stability of the solution of a nonlinear Volterra integro-differential equation with convolution kernel. These conditions are less restrictive than most of the known ones for this equation.

**1. Introduction.** We investigate the asymptotic behavior as  $t \rightarrow \infty$  of bounded solutions of the Volterra integro-differential equation

$$(1) \quad x'(t) + \int_0^t a(t-\tau)g(x(\tau))d\tau = f(t) \quad (0 \leq t < \infty),$$

where  $a$ ,  $f$ , and  $g$  are prescribed, real valued functions. We first prove

**Theorem 1.** *Let*

$$(2) \quad a \in L^1(0, \infty),$$

$$(3) \quad \int_0^\infty \cos(\omega t)a(t)dt > 0 \quad (-\infty < \omega < \infty),$$

$$(4) \quad g \in C(-\infty, \infty),$$

$$(5) \quad f \in L^1(0, \infty).$$

*Let*

$$(6) \quad x \in L^\infty(0, \infty)$$

*be a (locally absolutely continuous) solution of (1) on  $[0, \infty)$ . Then*

$$(7) \quad g(x(t)) \rightarrow 0 \quad \text{as } t \rightarrow \infty.$$

It may be remarked that if, in addition to the hypothesis of Theorem 1, one assumes the growth condition

$$|g(x)| \leq K \left( 1 + \int_0^x g(\sigma) d\sigma \right) \quad (-\infty < x < \infty),$$

$$\limsup_{x \rightarrow \pm\infty} \int_0^x g(\sigma) d\sigma = \infty,$$

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# Nonlinear Integral Equations

**Philip M. Anselone**



## **Nonlinear Integral Equations:**

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*Linear and Nonlinear Integral Equations* Abdul-Majid Wazwaz, 2011

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**Nonlinear Integral Equations** P. M. Anselone, 1964 *On a Nonlinear Integral Equation* Komorath Padmavally, 1958 *Existence Theory for Nonlinear Integral and Integrodifferential Equations* Donal O'Regan, Maria Meehan, 2012-12-06 The theory of integral and integrodifferential equations has advanced rapidly over the last twenty years Of course the question of existence is an age old problem of major importance This monograph is a collection of some of the most advanced results to date in this field The book is organized as follows It is divided into twelve chapters Each chapter surveys a major area of research Specifically some of the areas considered are Fredholm and Volterra integral and integrodifferential equations resonant and nonresonant problems in integral inclusions stochastic equations and periodic problems We note that the selected topics reflect the particular interests of the authors Donal O'Regan Maria Meehan

CHAPTER 1 INTRODUCTION AND PRELIMINARIES 1.1 Introduction The aim of this book is firstly to provide a comprehensive existence theory for integral and integrodifferential equations and secondly to present some specialised topics in integral equations which we hope will inspire further research in the area To this end the first part of the book deals with existence principles and results for nonlinear Fredholm and Volterra integral and integrodifferential equations on compact and half open intervals while selected topics which reflect the particular interests of the authors such as nonresonance and resonance problems equations in Banach spaces inclusions and stochastic equations are presented in the latter part

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## **Table of Contents Nonlinear Integral Equations**

1. Understanding the eBook Nonlinear Integral Equations
  - The Rise of Digital Reading Nonlinear Integral Equations
  - Advantages of eBooks Over Traditional Books
2. Identifying Nonlinear Integral Equations
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Nonlinear Integral Equations
  - User-Friendly Interface
4. Exploring eBook Recommendations from Nonlinear Integral Equations
  - Personalized Recommendations
  - Nonlinear Integral Equations User Reviews and Ratings
  - Nonlinear Integral Equations and Bestseller Lists
5. Accessing Nonlinear Integral Equations Free and Paid eBooks

- Nonlinear Integral Equations Public Domain eBooks
- Nonlinear Integral Equations eBook Subscription Services
- Nonlinear Integral Equations Budget-Friendly Options
- 6. Navigating Nonlinear Integral Equations eBook Formats
  - ePub, PDF, MOBI, and More
  - Nonlinear Integral Equations Compatibility with Devices
  - Nonlinear Integral Equations Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Nonlinear Integral Equations
  - Highlighting and Note-Taking Nonlinear Integral Equations
  - Interactive Elements Nonlinear Integral Equations
- 8. Staying Engaged with Nonlinear Integral Equations
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Nonlinear Integral Equations
- 9. Balancing eBooks and Physical Books Nonlinear Integral Equations
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Nonlinear Integral Equations
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Nonlinear Integral Equations
  - Setting Reading Goals Nonlinear Integral Equations
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Nonlinear Integral Equations
  - Fact-Checking eBook Content of Nonlinear Integral Equations
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development



- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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