

# On Global Attractors for a Class of Parabolic Problems

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**Abstract:** This paper is devoted to study the existence of global attractor in  $H_0^1(\Omega)$  and uniform bounds of it in  $L^\infty(\Omega)$  for a class of parabolic problems with homogeneous boundary conditions which involves a uniform strongly elliptic operator of second order in the domain  $\Omega \subset \mathbb{R}^n$ . The main tools used to prove the existence of global attractor are the techniques used in Hale [8] and Cholewa [5], and for the uniform bound of the attractor we use the Alikakos-Moser iteration procedure [1].

**Keywords:** Parabolic equation, sectorial operator, global attractor, uniform boundedness

## 1 Introduction

Today, the concept of global attractor is a very useful tool for studying the asymptotic behavior of differential equations, that is, an attractor is a nonempty subset  $\mathcal{A}$  of the phase space which is compact, invariant under the flow and attracts every bounded set under the semigroup associated to the PDE (for more details see [8], [10] and the reference therein). For example, suppose that the parabolic problem

$$\begin{cases} u_t = Lu + f(u), & t > 0, x \in \Omega \\ u(t, x) = 0, & t > 0, x \in \partial\Omega \\ u(0, \cdot) = u^0(\cdot) \in H_0^1(\Omega), \end{cases} \quad (1)$$

models a certain phenomenon. Here  $\Omega \subset \mathbb{R}^n$  is a bounded domain with smooth boundary  $\partial\Omega$ ,  $L$  is second order elliptic operator given by

$$Lu = \sum_{i,j=1}^n \frac{\partial}{\partial x_i} (a_{ij}(x) \frac{\partial u}{\partial x_j}) + \sum_{j=1}^n b_j(x) \frac{\partial u}{\partial x_j} + (c(x) + \lambda)u,$$

with coefficients  $a_{ij}, b_j, c: \bar{\Omega} \rightarrow \mathbb{R}$  smooth,  $a_{ij} = a_{ji}$ ,  $i, j = 1, \dots, n$ ,  $\lambda \in \mathbb{R}$  and  $f: \mathbb{R} \rightarrow \mathbb{R}$  is a nonlinear function of class  $C^2(\mathbb{R})$  satisfying the condition

$$|f'(x)| \leq C(1 + |x|^{\gamma-1}), \quad \forall x \in \mathbb{R}, \quad (2)$$

where  $1 \leq \gamma < \frac{n+2}{n-2}$  if  $n \geq 3$ , and  $\gamma \geq 1$  if  $n = 2$ , and

$$\limsup_{|u| \rightarrow \infty} \frac{f(u)}{u} \leq 0. \quad (3)$$

We assume that  $L$  is uniformly strongly elliptic operator, that is, there is a constant  $\theta > 0$ , such that

$$\sum_{i,j=1}^n a_{ij}(x) \xi_i \xi_j \geq \theta \left( \sum_{i=1}^n \xi_i^2 \right), \quad (4)$$

for all  $x \in \Omega$  and  $\xi = (\xi_1, \dots, \xi_n) \in \mathbb{R}^n$ .

The main goal of this work is to prove the existence and uniform boundedness of global attractor for the initial-boundary value problem (1) where the operator  $L$  presents lower order terms. The presence of such that terms in the operator  $L$ , in particular  $b_j a_{ij}$ , makes it difficult to obtain directly the Lyapunov function as in the works of Hale [8].

Let  $X = L^2(\Omega)$  be a Hilbert space and define the linear operator  $A: D(A) \subset X \rightarrow X$  by

$$\begin{aligned} D(A) &= H^2(\Omega) \cap H_0^1(\Omega), \\ Au &= -Lu, \quad \forall u \in D(A). \end{aligned}$$

There are many studies on PDE's for (1) with the operator  $A$  being self-adjoint (see [5], [8], [9]). In our case the operator  $A$  is not self-adjoint.

We will show that the operator  $A$  is sectorial and assuming that  $\lambda$  is chosen such that  $\text{Re} \sigma(A) \geq 0$ , we can define the fractional powers  $A^\alpha$  and the corresponding fractional power spaces  $X^\alpha := D(A^\alpha)$ ,  $\alpha > 0$ , endowed with the graph norm (see [5, Section 1.3.3]).  $X^\alpha$  is a Hilbert space with the inner product  $(\varphi, \psi)_\alpha = \int_\Omega f(A^\alpha \varphi)(A^\alpha \psi)$ . Then,  $X^1 = D(A)$ ,  $X^0 = L^2(\Omega)$  and  $X^{1/2} = H_0^1(\Omega)$ .

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## **Table of Contents Global Attractors In Abstract Parabolic Problems**

1. Understanding the eBook Global Attractors In Abstract Parabolic Problems
  - The Rise of Digital Reading Global Attractors In Abstract Parabolic Problems
  - Advantages of eBooks Over Traditional Books
2. Identifying Global Attractors In Abstract Parabolic Problems
  - 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 Global Attractors In Abstract Parabolic Problems
  - User-Friendly Interface
4. Exploring eBook Recommendations from Global Attractors In Abstract Parabolic Problems

- Personalized Recommendations
- Global Attractors In Abstract Parabolic Problems User Reviews and Ratings
- Global Attractors In Abstract Parabolic Problems and Bestseller Lists
- 5. Accessing Global Attractors In Abstract Parabolic Problems Free and Paid eBooks
  - Global Attractors In Abstract Parabolic Problems Public Domain eBooks
  - Global Attractors In Abstract Parabolic Problems eBook Subscription Services
  - Global Attractors In Abstract Parabolic Problems Budget-Friendly Options
- 6. Navigating Global Attractors In Abstract Parabolic Problems eBook Formats
  - ePub, PDF, MOBI, and More
  - Global Attractors In Abstract Parabolic Problems Compatibility with Devices
  - Global Attractors In Abstract Parabolic Problems Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Global Attractors In Abstract Parabolic Problems
  - Highlighting and Note-Taking Global Attractors In Abstract Parabolic Problems
  - Interactive Elements Global Attractors In Abstract Parabolic Problems
- 8. Staying Engaged with Global Attractors In Abstract Parabolic Problems
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Global Attractors In Abstract Parabolic Problems
- 9. Balancing eBooks and Physical Books Global Attractors In Abstract Parabolic Problems
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Global Attractors In Abstract Parabolic Problems
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Global Attractors In Abstract Parabolic Problems
  - Setting Reading Goals Global Attractors In Abstract Parabolic Problems
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Global Attractors In Abstract Parabolic Problems

- Fact-Checking eBook Content of Global Attractors In Abstract Parabolic Problems
  - 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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