

Preface

The thesis entitled “Chaotic Properties of Dynamical Systems” presents the findings of research conducted by me at the Department of Mathematics, The Maharaja Sayajirao University of Baroda, Vadodara, under the guidance of Dr. Sejal K. Shah.

The work is organized into six chapters, each contributing to a broader understanding of the subject matter. Some results from Chapter 2 have been published in the International Journal of Bifurcation and Chaos, Volume 32 (2022). The results of Chapter 3 have been published in the Turkish Journal of Mathematics, Volume 46 (2022). Results from Chapter 4 have been published in Dynamical Systems: An International Journal, Volume 39 (2024). The remaining results are communicated for publication.

This thesis is a testament to the research and analysis I undertook during my Ph.D. journey, and I believe it offers valuable insights and advancements in the field.

Naveenkumar S. Yadav

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