## CONTENTS

**CHAPTER-I**  
INTRODUCTION 1-13

**CHAPTER-II**  
SCOPE OF PRESENT INVESTIGATION 14-17

**CHAPTER-III**  
EXPERIMENTAL 18-40

1. Techniques employed 18
   A. D.C. Polarography 18
   B. Cyclic Voltammetry 23
   C. A.C. Polarography 26
   D. Differential pulse polarography 30
   E. Millicoulometry 34
   F. Controlled potential electrolysis 35

2. Instrumentation and methodology 36
   A. Electrolytic cell 36
   B. Electrochemical module 39
   C. Experimental procedure 39

**CHAPTER-IV**  
AZOMETHINE GROUP CONTAINING PESTICIDES 41-51

A. Introduction 41
B. Experimental procedure 43
C. Results and discussion 44
D. Comparative account 49
CHAPTER-V
NITROGROUP CONTAINING PESTICIDES 52-67
A. Introduction 52
B. Experimental 55
C. Results and discussion 55
D. Comparative account 65

CHAPTER-VI
CARBON - CARBON DOUBLE BOND CONTAINING PESTICIDES 68-77
A. Introduction 68
B. Experimental 71
C. Results and discussion 71
D. Comparative account 76

CHAPTER-VII
SUMMARY 78-85

CHAPTER-VIII
REFERENCES 86-96
LIST OF PUBLICATIONS 97