

CONTENTS

	TITLE	PAGE NO.
	INTRODUCTION	1
	REVIEW OF LITERATURE	7
CHAPTER 1	PRELIMINARY DEFINITIONS AND RESULTS IN CI-ALGEBRAS	15
1.1	Preliminaries on CI-Algebras	15
1.2	Filters and Upper Sets in CI-Algebras	23
CHAPTER 2	FUZZY IDEALS AND FUZZY FILTERS IN CI-ALGEBRAS	36
2.1	Fundamental Definitions on Fuzzy Sets	36
2.2	Fuzzy Ideals in CI-Algebras	40
2.3	On $(\epsilon, \in \vee q_k)$ -Fuzzy Filters of CI-Algebras	50
CHAPTER 3	ANTI FUZZY IDEALS AND ANTI FUZZY SUBALGEBRAS IN CI-ALGEBRAS	57
3.1	Anti Fuzzy Ideals of CI-Algebras and their Lower Level Subsets	57
3.2	Anti Fuzzy Subalgebras and Homomorphism of CI-Algebras	62
3.3	Anti Cartesian Product of Anti Fuzzy Ideals of CI-Algebras	68
CHAPTER 4	INTUITIONISTIC (T, S)-FUZZY CI-ALGEBRAS	72
4.1	Intuitionistic (T, S)-Fuzzy Subalgebras of CI-Algebras	72
4.2	Intuitionistic (T, S)-Fuzzy (Closed) Filters of CI-Algebras	88
CHAPTER 5	CUBIC SUBALGEBRAS AND FILTERS OF CI-ALGEBRAS	93
5.1	Cubic Subalgebras of CI-Algebras	93
5.2	Cubic Filters of CI-Algebras	102
	SUMMARY AND CONCLUSION	108
	REFERENCES	110