

CONTENTS

CHAPTER 0	Introduction and Contents	5
CHAPTER 1	Generalized Unique Factorization Domains	9
Section 0	Introduction	9
Section 1	Definitions and Properties of Prime Quanta	10
Section 2	Examples	15
Section 3	Results analogous to Classical Theorems	17
Section 4	Stability Properties of GUD's.	23
Section 5	Ideal Theory	29
CHAPTER 2	Semirigid Domains	37
Section 0	Introduction	37
Section 1	Preliminary Definitions and Basic Results	40
Section 2	Semirigid Domains	43
CHAPTER 3	Unique Representation Domains	48
Section 0	Introduction	48
Section 1	Rings of Krull Type	51
Section 2	Factorization in an HCF Ring of Krull Type	54
Section 3	Unique Representation Domains	62
Section 4	Stability Properties of URD's	71
CHAPTER 4	Ideal Transforms in GKD's	78
Section 0	Introduction	78
Section 1	A Formula for the Transform of an Ideal in a GKD	82
Section 2	The Property (v)	87
Section 3	Rings and their Principal Ideal Transforms	94
Section 4	Miscellaneous Results	103
References		113