

Contents

1	Introduction	1
2	Sharpness and Trace Properties	5
2.1	h -Local Domains	5
2.2	Sharp and Double Sharp Domains	9
2.3	Sharp and Antesharp Primes	11
2.4	Trace Properties	20
2.5	Sharp Primes and Intersections	28
3	Factoring Ideals in Almost Dedekind Domains and Generalized Dedekind Domains	39
3.1	Factoring with Radical Ideals	39
3.2	Factoring Families for Almost Dedekind Domains	45
3.3	Factoring Divisorial Ideals in Generalized Dedekind Domains	47
3.4	Constructing Almost Dedekind Domains	50
4	Weak, Strong and Very Strong Factorization	71
4.1	History	71
4.2	Weak Factorization	73
4.3	Overrings and Weak Factorization	82
4.4	Finite Divisorial Closure	87
5	Pseudo-Dedekind and Strong Pseudo-Dedekind Factorization	95
5.1	Pseudo-Dedekind Factorization	95
5.2	Local Domains with Pseudo-Dedekind Factorization	100
5.3	Strong Pseudo-Dedekind Factorization	108
5.4	Factorization and the Ring $R(X)$	114
6	Factorization and Intersections of Overrings	119
6.1	h -Local Maximal Ideals	119
6.2	Independent Pairs of Overrings	126

6.3	Jaffard Families and Matlis Partitions.....	129
6.4	Factorization Examples	136
Symbols and Definitions		153
References		159
Index		163