Contents

	Figures v
	Tables vi
	Preface vii
	Acknowledgments xi
1.	Optical Disc Systems 1
2.	CD-ROM Standards 26
3.	CD-ROM Production 38
4.	Applications of Optical Storage Systems 55
5.	A Comparison between CD-ROM and Other Media 70
	Hardware, Networks, and MSCDEX 86
	Automating the CD-ROM Workstation 105
	CD-ROM Product Considerations 116
9.	Library Applications: Cataloging Support 126
	Library Applications: Public Access Catalogs 135
	Other Library Applications 141
	Other Applications 147
	Appendixes
	A. CD-ROM Products (an Alphabetical List) 157
	B. CD-ROM Products (a Subject List) 211
	C. CD-ROM Distributors and Producers 228
	D. Manufacturers of CD-ROM Drives 255
	E. Manufacturers of WORM Drives 257
	F. Manufacturers of Erasable Drives 260
	G. Retrieval Software Developers 261
	•
	Basic Sources 265
	Index 978

Figures

1.1	Tracks on CAV Disc 2
1.2	Spiral Format of CLV Disc 2
1.3	Pits and Lands 3
1.4	Reading the Pits and Lands 4
1.5	Analog and Digital Signals 6
1.6	Signal Samples 7
1.7	Types of Read-Only Memory Discs 8
1.8	Pits Viewed through an Electron Microscope 10
1.9	Cross Section of a CD 15
2.1	CD-ROM Data Block 29
2.2	Physical Addressing Scheme 30
2.3	Modulation 32
3.1	Ordered Data Files 43
3.2	Unordered Data Files 43
3.3	Inverted Index 44
3.4	Binary Tree Index 46
3.5	Balanced Binary Tree Index 46
3.6	Hash Table Index 47
3.7	ANSI Standard 48
3.8	Replication Process 51
3.9	Pits and Lands Viewed through an Electron Microscope 52
3.10	Inspecting CD-ROM Disc 53
3.11	Cost of Application Development 54
4.1	Laser Optic Filing System 56
4.2	Blistered Recording Layer 60
4.3	Cygnet Jukebox 63
5.1	Distribution of Databases 71
5.2	Online Connect Time 76
5.3	Media Cost per User 82
6.1	CD-ROM Workstation 86

vi Tables

6.2	Hitachi CD-ROM Drive 87
6.3	Philips CD-ROM Drive 88
6.4	Sony Caddy 89
6.5	Daisy-Chaining 96
6.6	Network Topologies 99
6.7	A Ring CD-ROM LAN 100
6.8	Multi Disc 102
7.1	EDLIN Keys and Functions 106
7.2	Main Menu 108
8.1	Hypertext Database 121

Tables

4.1	1 rack Structure 31	
2.2	8- to 14-Code Conversion Table	32
6.1	Comparison of Charges 103	
7.1	Subdirectory Names 107	
7.2	Color Rendition Codes 110	