



Contents

List of figures	xiii
Dedication	xvii
Introduction	xix
List of acronyms and abbreviations	xxiii

Part I Structuring and Describing

1	Knowledge, information and their organization	3
	Introduction	3
	Why organize knowledge?	3
	Defining 'information' and 'knowledge'	5
	Why isn't Google sufficient?	7
	Tools for organizing knowledge and information retrieval	9
	Approaches to information retrieval: what people do	12
	Approaches to information retrieval: what computers do	13
	Characteristics of information and knowledge	14
	Summary	17
2	Formatting and structuring knowledge	21
	Introduction	21
	Databases	21
	Text and multimedia	31
	Documents	33
	Bibliographic relationships	35
	Text analysis	38

	Text markup and encoding	39
	Metadata	42
	Traditional forms of metadata used by indexers	48
	Summary	51
3	Describing documents	55
	Introduction	55
	Characteristics and problems of document representation	55
	Records	57
	Citations	58
	Abstracts	63
	Bibliographic record formats	71
	Bibliographic description	74
	Description and specific document types	81
	The MARC format	85
	Summary	92
<hr/>		
Part II	Access	
<hr/>		
4	Users and user behaviour	99
	Introduction	99
	Users	99
	Information behaviour	102
	The processes of indexing and searching	108
	Information seeking	113
	Usability	119
	Summary	122
5	Subjects as access points	125
	Introduction	125
	Approaches to subject retrieval	125
	'Aboutness'	126
	Types of indexing and searching languages	128
	Features of retrieval systems	131
	The fundamentals of controlled indexing languages	134
	Using facet analysis to analyse and represent relationships	143

	Displaying the thesaurus	144
	Thesaurus use	145
	Search facilities	150
	Search logics	156
	Other common search facilities	160
	Differences between Web Information Retrieval and traditional Information Retrieval	168
	Summary	168
6	Classification and order	171
	Introduction	171
	Categories, hierarchies and systematic arrangement	172
	Functions of bibliographic classification	174
	Schedules	175
	Notation	183
	Alphabetical index	187
	Revision	188
	The classification process	189
	Summary	190
7	Further concepts and tools for subject access	193
	Introduction	193
	Pre-coordination	193
	Subject headings lists	199
	Bibliographic classification schemes	206
	Taxonomies and ontologies	222
	Summary	231
8	Access through author names and titles	237
	Introduction	237
	Catalogues and their functions	238
	The structure of AACR Part II	242
	Choice of access points	243
	Headings for persons	246
	Corporate bodies	249
	Uniform titles	253
	Citations, catalogue entries and metadata	254
	Summary	256

Part III Systems

9	Organizing knowledge in the digital environment	261
	Introduction	261
	What is a portal?	262
	Digital libraries	266
	Open access and repositories	270
	Search engines and directories	273
	Quality controlled resources: Intute	274
	Online public access catalogues (OPACs)	275
	Abstracting and indexing databases	275
	Citation indexes	282
	Content management systems (CMSs)	282
	Records management systems	283
	Image retrieval systems	284
	Web community tools (wikis and blogs)	285
	Summary	288
10	The evaluation and design of information retrieval systems	291
	Introduction	291
	Evaluation and evaluation criteria	292
	Methods and approaches to evaluation	300
	Major retrieval evaluation projects	303
	Current issues in evaluation	307
	Summary	310
11	Organizing knowledge without IT	315
	Introduction	315
	Document arrangement	316
	Printed and card catalogues and indexes	320
	Book indexing	331
	Filing order and sequences	333
	Summary	338
12	Management of knowledge systems	341
	Introduction	341
	Maintaining authority control and updating controlled indexing languages	342

Managing systems for knowledge organization	345
Evolving and migrating systems	348
Knowledge networks	354
Summary	357
Index	361