

Contents

List of figures and tables	ix
Preface	xi
Abbreviations	xv
1 Definitions and scope	1
Information resources.....	1
Resource description	3
Metadata	4
Elements, values, format and transmission.....	6
Managing metadata	8
The contemporary information environment.....	9
Information organization.....	11
Overview of this book	14
References	14
2 Information resource attributes	15
Introduction.....	15
Describer and user contexts	15
Information resource contexts	17
The functions of metadata.....	18
From attributes to elements.....	31
References	31

3	Tools and systems	33
	Introduction.....	33
	Arrangements.....	33
	Indexes and databases.....	36
	Bibliographic databases.....	39
	Library catalogues.....	39
	Periodical databases.....	46
	Federated search systems	46
	Archival finding aids	48
	Museum registers.....	49
	Digital collections.....	51
	Search engines.....	53
	Online directories.....	54
	Bibliographies.....	56
	Citation databases.....	57
	References	57
4	Metadata sources	59
	Introduction.....	59
	Resource creators	59
	Publishers.....	60
	Information professionals.....	61
	Library cataloguing.....	62
	Metadata librarianship	63
	Indexing and abstracting.....	65
	Archival description	68
	Museum documentation	68
	Records management	68
	Information architecture	69
	End-users.....	70
	Computers	72
	References	74
5	Metadata quality	77
	Introduction.....	77
	Functionality	77
	Comprehensiveness.....	78
	Accuracy.....	79

CONTENTS

Clarity.....	79
Consistency	80
Vocabulary and authority control.....	82
Principles of best practice.....	86
Quality assurance	87
Cost-benefit analysis	89
References	90
6 Sharing metadata.....	93
Introduction.....	93
Library catalogue records	93
Metadata for search engines	98
Interoperability	99
References	101
7 Metadata standards	103
Introduction.....	103
Web publishing	104
Libraries	108
Digital libraries.....	127
Archives.....	131
Museums.....	136
Book publishing	138
Book indexing	139
Database indexing	140
E-research	140
Education.....	141
Audiovisual industries.....	142
Business.....	143
Government.....	144
Registries.....	145
References	145
8 Vocabularies	151
Introduction.....	151
Controlled subject vocabularies	151
Subject headings	154
Subject thesauri.....	159

INFORMATION RESOURCE DESCRIPTION

Subject classification schemes	162
Taxonomies and ontologies.....	170
Non-subject vocabularies.....	174
Vocabulary mapping	175
Identification systems	176
References	177
9 The future of metadata	181
Introduction.....	181
Three approaches.....	181
Content-based information retrieval.....	182
Social metadata.....	184
Professional description.....	187
Conclusion	195
References	198
Further reading	201
Metatadata standards	205
Index.....	213