Contents

List of Figures	ix
Foreword	xi
Preface	XV
Chapter 1 The Impact of Information in Society	1
Learning Guide	1
Introduction	2
Uses of Information in Daily Activities	2
Uses of Information in Society	8
Information in Transition	10
Conclusion	11
Questions for Consideration	12
References	12
Additional Source	14
Chapter 2 Fundamental Concepts of Information	15
Learning Guide	15
Introduction	16
Levels and Forms of Information	16
Definitions of Information	18
Characteristics of Information	20
Information as Process	20
Information Theory	23
Perceptions of Information	24
Linguistic and Biological Approaches to Information	26
Conclusion	33
Questions for Consideration	33
References	34
Additional Sources	37
Chapter 3 Information Needs and Information Seeking Behavior	39
Learning Guide	39
Introduction	40
	iii

iv Fundamentals of Information Studies

Entertainment as Information	42
Information Needs	43
Information Seeking Behaviors	45
Conclusion	54
Questions for Consideration	55
References	55
Additional Source	58
Chapter 4 History of Information Technology	59
Learning Guide	59
Introduction	60
Science and Technology Differentiated	60
Information Technology and the Information Disciplines	63
Standardization in Information Transmission and Communication	65
Writing: The First Information Technology Revolution	70
Movement of Messages: The Second Revolution	73
Social Implications of Information Technology	78
Conclusion	80
Questions for Consideration	81
References	81
Additional Sources	82
Chapter 5 Current Information Technology	85
Learning Guide	85
Introduction	86
Data Creation and Conversion	87
Information Transmission	89
Storage and Retrieval: Electronic Databases	97
Storage and Retrieval: Digital Libraries	98
Interactive Systems: Storage, Retrieval, and Creation Combined	101
Storage and Preservation	103
Conclusion	106
Questions for Consideration	106
References	107
Additional Sources	109
Chapter 6 Societal Institutions for Creation, Distribution,	
and Management of Information	111
Learning Guide	111
Introduction	112
Early Institutions and Processes	113

	Contents	٧
Development of the Publishing Industry		14
Growth and Change in Libraries		15
Establishment of Educational Systems		17
Modern Institutions	1	18
Developing and Producing Information Records		
for Distribution	1	19
Fostering the Transmission of Information to Future		
Generations and Developing New Information	1	37
Distributing Information Records and Providing		
Management of and Access to Information Records		40
Conclusion		43
Questions for Consideration		43
References		44
Additional Sources	1	47
Chapter 7 The Information Professions	1	49
Learning Guide		49
Introduction		50
Categories of the Information Professions		51
Information Creation/Discovery Professions		55
Information Transmission Professions		58
Management-related Professions		60
Storage-related Professions		66
Changes in the Information Professions		75
Conclusion		79
Questions for Consideration		81
References		81
Additional Sources		84
Additional Sources	1	PO
Chapter 8 The Impact of Information on Cultures and Societ	ties 1	87
Learning Guide		87
Introduction	1	88
Identifying an Information Society	1	88
Considering the Impact of Information and Information		
Technologies on Societies	2	202
Conclusion	2	212
Questions for Consideration	2	212
References	2	212
Additional Sources	2	216

Chanten O Farmanias of Information	210
Chapter 9 Economics of Information	219
Learning Guide	219
Introduction Very Definitions and Consents	220
Key Definitions and Concepts	220
Information as an Economic Good	222
Cost, Pricing, and Value of Information	225
Subsidization of Information Provision	228
Role of Government in the Economics of Information	230
Trends in Information Economics	236
Conclusion	237
Questions for Consideration	238
References	238
Additional Sources	239
Chapter 10 Information, Power, and Society	241
Learning Guide	241
Introduction	242
Thoughts on Power	242
Information as Power	245
Information and Power	253
Power and Technology	258
Conclusion	261
Questions for Consideration	262
References	262
Additional Sources	265
Chapter 11 The Regulation and Politics of Information	267
Learning Guide	267
Introduction	268
Regulation of Communication	269
Information Control	271
Forms of Information Regulation	274
Control and Use of Government Information	275
Information Policy and Regulatory Bodies	277
Conclusion	297
Questions for Consideration	297
References	297
Additional Sources	299
	201
Chapter 12 The Areas and Issues of Information Policy	301
Learning Guide	301
Introduction	302

	Contents	vii
Policies on Generation and Production		303
Policies on Dissemination of and Access to Information		308
Policies on Distribution of Information		310
Major Areas of Current Policy Concern		314
Conclusion		328
Questions for Consideration		328
References		329
Additional Sources		331
Chapter 13 Information Ethics		333
Learning Guide		333
Introduction		334
Ethics and Culture		335
Ethics Sources		336
On the Differences: Law, Ethics, and Morals		337
Morals, Values, and Ethics		338
Ethics, Morals, and Information		339
Information as Practice		340
Codes of Ethics and Values: What the Professionals Tell Us		341
Issues in Information Ethics		349
Conclusion		369
Questions for Consideration		371
References		371
Additional Sources		376
Chapter 14 Information Future(s)		379
Learning Guide		379
Introduction		380
Looking Back and Looking Forward		382
Information, Society, and the Future		390
Questions for Consideration		392
References		392
Additional Sources		395
Appendix 1: Glossary of Terms		397
Appendix 2: Glossary of Acronyms of Organizations		409
Index		411
About the Authors		443