

The Economics of Information

*A Guide to Economic and
Cost-Benefit Analysis for
Information Professionals*

Second Edition



Bruce R. Kingma

Contents

Preface.....	xi
Chapter 1: Introduction.....	1
Why Study Economics?	2
Economics	4
Information Economics	6
Summary	8
Notes.....	8
Chapter 2: Costs.....	9
Fixed and Variable Costs	10
Marginal, Average, and Total Costs.....	12
Opportunity Costs.....	18
Other Cost Definitions.....	20
Supply and Costs	21
Market Supply	24
Changes in Market Supply	25
Price Elasticity of Supply	25
Summary	27
Notes.....	28
Chapter 3: Benefits.....	29
Demand	30
Price.....	30
Changes in Demand.....	32
Price Elasticity of Demand.....	35
Consumer Surplus	40
Summary	43
Notes.....	43
Chapter 4: Markets.....	45
The Market Equilibrium.....	46
Changes in Demand and Supply	47
Economic Efficiency	51
Market Failure	53
Summary	55
Chapter 5: Information as a Public Good.....	57
Public Good Demand	58
Financing Public Goods	61
Information as a Public Good.....	63
Summary	64

Chapter 6: Externalities	65
Negative Externalities	66
Positive Externalities.....	68
Balancing Positive and Negative Externalities	70
Summary	72
Chapter 7: Monopolies	75
Monopoly Demand.....	77
Natural Monopolies.....	80
Multi-Price Suppliers	85
Summary	88
Chapter 8: Uncertainty and Risk	89
Expectations and the Value of Information.....	90
Asymmetrical Information and Markets	92
Information Markets.....	95
Insurance	96
Education.....	97
Other Information Markets.....	97
Modeling Information Acquisition.....	98
Summary	101
Notes.....	101
Chapter 9: Commodity or Public Good	103
Market for Books and Journals	104
Information Markets.....	107
Summary	110
Chapter 10: Pricing	113
User Fees as Allocation Tools.....	114
Marginal Cost of Pricing.....	117
Financing Information Goods: Ramsey Prices	121
Financing Information Goods: Value-Based Prices.....	123
Summary	125
Notes.....	125
Chapter 11: Time	127
Measuring the Value of Time.....	128
Measuring Opportunity Costs	129
Value of Time Saved.....	130
Consumer Surplus and Economic Cost.....	132

Congestion.....	133
Present Value.....	136
Summary	139
Notes.....	140
Chapter 12: Resource Sharing	141
Multiple Users of Information Resources	141
Opportunity Cost of Patron Time.....	147
Summary	149
Chapter 13: The Costs and Benefits of Digital Information	151
Cost of Access to Information.....	152
Consumer Costs.....	152
Producer and Intermediary Costs	154
Pricing of Digital Information.....	156
Summary	159
Chapter 14: Network Economics	161
Pricing of Electronic Journals	162
Role of Libraries in a Networked Environment	165
Summary	166
Bibliography.....	167
Index.....	175