

List of Tables

1.1	A simplified characterisation of general system dynamics	21
3.1	Why intangibles matter	61
3.2	Shares in total manufacturing: EU+Japan+USA 1997 in %	72
3.3	Non parametric tests for significant differences in factor inputs	78
3.4	Average shares in total employment	81
3.5	The new taxonomy of manufacturing industries	85
3.6	Non parametric tests for significant differences in labour skills	91
3.7	Do skill requirements explain factor inputs?	92
3.8	Predicting taxonomy I according to labour skills	93
3.9	Do factor inputs explain skill requirements?	94
3.10	Predicting taxonomy II by means of factor input combinations	96
4.1a	Intangible assets and competitive strategy: taxonomy I	102
4.1b	Intangible assets and competitive strategy: taxonomy II	103
4.2	Non parametric tests for unit values: taxonomy I	110
4.3	Non parametric tests for unit values: taxonomy II	111
4.4	Non parametric tests for labour productivity and wages: taxonomy I	115
4.5	Non parametric tests for labour productivity and wages: taxonomy II	116
4.6	Value added shares in total manufacturing 1997: skill types	123
4.7	Value added shares in total manufacturing 1997: factor inputs	127
A4.1	Non parametric tests for significant differences in value added shares 1997 – skill types	132
A4.2	Non parametric tests for significant differences in value added shares 1997 – factor inputs	134
6.1	The time dependence of policy design	163

List of Figures

3.1a	Dendrogram of successful clustering	69
3.1b	Example of failed clustering	70
3.2	Boxplot for labour intensity	75
3.3	Boxplot for capital intensity	75
3.4	Boxplot for advertising outlays	76
3.5	Boxplot for research expenditures	76
3.6	Cluster of manufacturing sectors according to labour skills	82
3.7	Boxplot for shares in white-collar high-skilled labour	83
3.8	Boxplot for shares in white-collar low-skilled labour	83
3.9	Boxplot for shares in blue-collar high-skilled labour	84
3.10	Boxplot for shares in blue-collar low-skilled labour	84
4.1	Unit values in EU trade: 1997 in ECU per kg	108
4.2	Standard deviation of unit values in the EU 1996	109
4.3	Labour productivity: EU+Japan+USA 1997 in 1000 ECU	114
4.4	Intangibles and labour productivity I: factor intensities	119
4.5	Intangibles and labour productivity II: industry types	121
4.6	Relative similarity in value added shares: taxonomy II	124
4.7	Mapping European specialisation 1997: skill types	125
4.8	Relative similarity in value added shares: taxonomy I	128
4.9	Mapping European specialisation 1997: factor inputs	129
5.1	Top five value added shares in manufacturing	139
5.2	Industrial location and sectoral specialisation	153
6.1	Typical cluster components for multimedia and cultural content	166
6.2	The competitiveness policy prism	172

Contents

<i>List of Figures</i>	vii
<i>List of Tables</i>	ix
<i>Preface</i>	xi
1. Entrepreneurial Competition	1
1.1 Introduction	1
1.2 Entrepreneurial Discovery	3
1.3 Evolutionary Change	17
1.4 Summary and Conclusions	22
Appendix: Non-Economic Sources of Evolutionary Thought	27
2. The Organization of Knowledge	34
2.1 Introduction	34
2.2 The Entrepreneurial Nature of the Firm	35
2.3 Diversity in Firm Behaviour	39
2.4 Market Co-ordination versus Firm Organization	43
2.5 Summary and Conclusions	54
3. Intangible Investment and Human Resources	58
3.1 Introduction	58
3.2 Why Intangibles Matter	59
3.3 Taxonomy I: Typical Factor Input Combinations	63
3.4 Taxonomy II: Labour Skills	79
3.5 On their Complementarity	88
3.6 Summary and Outlook	96
4. The Competitive Performance of European Industries	99
4.1 Introduction	99
4.2 Corporate Strategy	100
4.3 Economic Performance	106
4.4 The Patterns of European Specialisation	122
4.5 Summary and Conclusions	130
Appendix	132
5. Sectoral Specialisation and Industrial Location	137
5.1 Introduction	137
5.2 The Marshallian Cluster Hypothesis	140
5.3 Cluster Formation by Pooled Labour Markets	142
5.4 Industrial Policy and Location	154
6. Competitiveness Policy	157
6.1 Introduction	157
6.2 An Example: Multimedia and Cultural Content	159
6.3 The Competitiveness Policy Prism	167
Bibliography	177
Index	191