CONTENTS

Foreword by the Director General of UNITAR	
Authors' Preface	ix
Introduction: What is at Issue?	1
Situation Assessment: Where do We Stand?	17
1. Collecting Information on Countries, Events, Opinions	19
2. Compiling Data	28
3. Creating and Running a Documentation System	34
4. Creating a Dataset	39
5. Evaluation of Periodical Information Services	45
6. Simple Indicators and Checklists	48
7. Complex Indicators (Indices)	52
8. Scaling (R-Factor Analysis)	59
9. Typologies (Q-Factor Analysis)	65
10. Classification (Cluster Analysis)	68
11. Multidimensional Scaling	72
Explanation: Why are Things as They are?	77
12. Arrow Diagrams (Causal Charts)	79
13. Cognitive Mapping: Analysis of Motives and Intentions	83
14. Utilization of Theoretical Findings	87
15. Systematic Evaluation of Scientific Literature	91
16. Systems Analysis	97
17. Correlation Analysis	103
18. Regression Analysis (Bivariate Version)	109
19. Analysis of Nonlinear Relationships	114
20. Partial and Multiple Correlation Analysis	120
21. Multiple Regression Analysis	123
22. Path Analysis	126
Forecast: What will happen?	131
23. Historical Analogies	133
24. General Analogies	136
25. Systematic Expert Judgment	138
26. Delphi Analysis	145
27. Bayesian Inference	149
28. Cross-Impact Analysis	153
29. Early Warning Indicators	157
30. Extrapolation with Moving Averages	161
31. Trend Analysis	166
32. Time Series Analysis (ARIMA)	173

33.	Spectral Analysis	179
	Combined Trend and Time Series Analysis	184
35.	Trend Impact Analysis	190
Prepar	ration of Decisions: What are the Options?	197
36.	Decisional Trees in Problem Analysis	199
37.	Game Theory Approach to Problem Analysis	202
38.	Scenario Writing	200
39.	Application of Morphological Approaches	210
	Gaming	214
	Computer Simulation	218
42.	Econometric Models	224
43.	Simulating Chains of Events	229
	Global Models	235
Decisio	on-Making: What to do?	243
	Decisional Trees	245
46 .	Decisional Matrix (Extended Version)	249
	Simple Decisional Matrix	255
	Linear Partial Information (LPI) Analysis	260
Using	Computers	26:
_	Large Computers (Mainframes)	26
	Microcomputers (PCs)	27
Conseq	quences: Selection and Combination of Methods	27:
Appen	dix: Technical Details	29′
Bibliog	graphy	373