## TABLE OF CONTENTS

PRI	EFACE	ΧV
	APTER I / CONCEPTS AND INDICATORS IN HUMANISTIC	
1.	The Problem of 'Verstehen'	1
	Observable and Hypothetical Properties in Sociological Concepts	7
3.	Concepts Defined with Humanistic Coefficient in the Language of	
	Sociology	11
4.	Understanding Constructs in Defining the Dependent and In-	
	dependent Variables of Social Theories	18
5.	The Validity of Introspectionist 'Self-Evidence'	26
6.	Motives of Goal-Oriented Behaviors	29
7.	Human Rationality as Explanatory Principle	33
	Defining and Assessment – Two Operations Called Verstehen	42
	Types of Indicators of Meaningful Sociological Variables	48
10.	Behavioral Indicators and 'Surplus Meanings' in Behavioral	
	Theories	55
11.	The Validity of Indicators in Empirical Social Studies	58
Not	es	69
Bib	liography	71
	APTER II / VERBAL COMMUNICATIONS AS INDICATORS OF CIOLOGICAL VARIABLES	
1.	The Structure of the 'Communication Chain'	73
2.	Two Categories of Factors Distorting the Communicative Rela-	
	tion	79
3.	Verbal Behaviors and their Behavioral Correlates as 'Legitimate'	
	Objects of Social Studies	82
4.	Inferences Based on Assumption of Correspondence at the Ex-	
	pressive Level	87

5. 6. 7.	Expressive and Other Instrumental Functions of Verbal Behavior Problems of the Validity of Subjectively Sincere Communications Inferences from and of Distortions of the Cognitive Relation	89 93 97	
Not		102 103	
CH CO	APTER III / MEANING AND MEASUREMENT IN MPARATIVE STUDIES		
1.	Conceptual and Operational Aspects of Phenomenal and Re-		
	lational Comparability	104	
2.	Types of Relational Equivalences	112	
3.	Declared vs. Reconstructed Meaning of Attitudes	118	
4.	Ideological Connotation of Attitude Toward 'Socialism' Among Warsaw Students – A Case Study of 'Measurement of Meaning' of		
	Political Attitudes	123	
5.	'Marxism' and 'Socialism' - Two Variables with Similar Meaning		
	and Different Intensity	127	
Notes			
Bil	bliography	131	
Ml	IAPTER IV / COMPARATIVE SOCIAL RESEARCH AND ETHODOLOGICAL PROBLEMS OF SOCIOLOGICAL DUCTION		
1.	Different Aspects of Generality of Theoretical Social Propositions	133	
2.		136	
3.			
٥.	Social Research	139	
4.		142	
5.	· · · · · · · · · · · · · · · · · · ·		
٥.	tion and Indirect Confirmation of Hypotheses	145	
6.			
υ.	Sociological Induction	147	
7.	The state of the s		
٠.	tions in Social Theory	151	

8.	Comparative Induction and the Problem of One-Case Macro-	
	Theories	157
Not	es	162
Bib	liography	164
CH	APTER V / CAUSAL INTERPRETATION OF STATISTICAL	
RE	LATIONSHIPS IN SOCIAL RESEARCH	
1	The Problem of Causality	165
	Typology of Causal Relations	167
	Statistical Laws and Historical Generalizations	171
	Statistical Relationships in Unconditional and Conditional Causal	
4.	Patterns	173
_	Statistical Relationships in Multistage Causal Chains	183
٥.	Relative Frequencies and Random Probabilistic Relations	186
	Causality, Correlation and Spurious Independence	187
	Spurious Correlations	194
	The Test Variable as a Supplementary Factor and as an Alter-	
9.	native Cause	201
10	Some other Functions of the Test Variable	205
		209
	A Typology of Three-Variable Analyses  Additivity and Interaction between the Quantitative Variables	212
		223
Not		227
Bib	liography	221
СП	APTER VI / INDUCTIVE INCONSISTENCIES AND THE	
PR	OBLEMS OF PROBABILISTIC PREDICTIONS	
		220
1.	'Inconsistencies' Generated by Statistical Syllogism	228
2.	'Contradictions' Generated by General Conditional Laws of	220
	Science	229
3.	Probability and Randomness	231
4.	The Unconditional and Conditional Probabilistic Relations	233
5.	Two Kinds of Conditionality of Probabilistic Relations	235
6.	Patterns of Probabilistic Predictions and the Problem of Inductive	
	Inconsistencies	238

7.	Mr. Petersen Revisited	240
8. Not Bib	Deriving the Probabilities for Intersections of Additive and Interacting Causal Collectives tes liography	244 253 255
CH.	APTER VII / LOGICAL AND EMPIRICAL ASSUMPTIONS OF LIDITY OF INDUCTIONS	
1.	The Role and Nature of Empirical Presuppositions in Inductive	
	Reasoning	256
2.	The Assumption of Complete Uniformity within a Class of Ob-	
	jects or Events	261
3.	The Assumption of Randomness in Statistical Induction	264
4.	The Assumption of Randomness in Enumerative Induction	268
5.	The Possibility of Estimating the Degree of Unconditionality of	
	General Causal Hypotheses	272
6.	Conclusions	282
No	tes	284
Bib	bliography	284
V A	IAPTER VIII / EMPIRICAL KNOWLEDGE AND SOCIAL ALUES IN THE CUMULATIVE DEVELOPMENT OF OCIOLOGY	
1.	Symptoms of Crisis in Sociology	285
2.	Cumulative Character of Empirically Tested Propositions and Theories	289
3.	Empirical and Normative Components in the Divergent Inter-	
	pretations of Findings	293
4.	Normative and Empirical Assumptions of Particular 'Approaches'	299
5.		305
6.	Ideological Functions of Sociology	311
No	otes	316
Bi	bliography	318

						${\tt EXPLANATORY}$	CON-
STRUCTS	IN T	HEORIE	SOFS	SOCIAL B	EHA	AVIOR	

1.	Two Types of Sociological Explanations and Predictions	319
2.	Cultural Norms as Matrices of Human Behaviors	322
3.	Methodological Features of the Laws of Isomorphism	324
4.	Different Meanings of the Term 'Cultural Norm'	329
5.	Norm in the Coercive Sense	332
6.	Norm in the Motivational Sense	334
7.	Norm in the Behavioral Sense	335
8.	Norm in the Complex Sense and Patterns of Normative Integra-	
	tion	337
9.	Matrix Laws and Macrosociological Theory	342
Not		345
Bib	liography	346
	APTER X / ROLE AND LIMITS OF THE 'FUNCTIONAL PROACH' IN FORMULATION OF THEORIES OF ATTITUDES	
1.	Internal and External Functionality of Attitudes	347
2.	Theory or a Heuristic Directive	351
3.	The Danger of Teleologism	353
4.	Different Patterns of Conscious and Unconscious Instrumentality	358
5.	The Principle of Functionality and the Problems of Prediction	361
6.	Spontaneously Formed and Culturally Imposed Attitudes	366
No	tes	373
Bib	liography	374
CH OF	APTER XI / THE LOGIC OF REDUCTIVE SYSTEMATIZATIONS SOCIAL AND BEHAVIORAL THEORIES	
1.	The 'Problem of Reduction' in Social Sciences	376
	Two Basic Patterns of Reduction	378
3.	The Reduction of Laws to More General Laws	380
4.	Reductions and Pseudo-Reductions	386
5.	Problems of Incomplete Reductions	389
6.	Explaining a Law by a Number of Additive Laws	392
	Reduction of Statistical Laws	395

8. 'Objective Existence' of Collectivities and the Definitional Dependence of their Characteristics upon the Characteristics of	200
their Members	399
9. General Pattern of Inter-Level Reductions and the Character of	400
Correspondence Rules in Reductive Social Theories	409 418
10. The Problem of 'Emergence'	410
11. Laws of Behavior and Laws of Social Interaction in Reductive	126
Social Theories	426 429
12. Statistical Relationships in Multi-Level Reductions	429
13. Some Special Problems of 'Emergence' in Sociology	434
14. Postulates of Reductionism and the Relations between Sociology	442
and Psychology	442
Notes	447
Bibliography	449
CHAPTER XII / VALUES AND KNOWLEDGE IN THE THEORY OF EDUCATION: A PARADIGM FOR AN APPLIED SOCIAL SCIENCE	
1. Theory or Theories of Education	451
2. Problem of Systematization of Theoretical Knowledge in the	454
Science of Education	454
3. Construction of Models of Educational Situations for Explana-	
tion and Prediction	456
4. Certain Characteristics of Practical Sciences	460
5. Problems Connected with the Choice of Goals of Educational	
Processes	462
6. Ordering of the Goals of Educational Programs Understood as	
Systems of Values	466
7. Evaluation of the Distance between Educational Goals and	
Starting Point	468
8. Theoretical Evaluation of Attainability of Intended Educational	
Goals	470
9. The Manipulable Variables of the Educational Situation	475
10. Educational Institutions and the Wider Educational Environment	478
Notes	479
Bibliography	480
INDEX OF NAMES	481