

TABLE OF CONTENTS

ACKNOWLEDGEMENTS	v
CHAPTER 1/ INTRODUCTION	1
1.1. Program	1
1.2. Historical Background	3
1.3. Formal Preliminaries	10
1.3.1. Summary of Elementary Set-Theoretic Notions	11
1.3.2. Formal Systems, their Syntax and Semantics	17
CHAPTER 2 / INDIVIDUALS	24
2.1. Outline of Goodman's Conception	24
2.2. Part-Whole Relations	31
2.3. Atomistic Universes of Individuals	36
2.4. The Leonard-Goodman Calculus of Individuals LGCI	44
2.5. The General Calculus CII of Atomistic Individuals	50
2.5.1. The Vocabulary and the Axioms of CII	50
2.5.2. Some Theorems of CII	52
2.5.3. The Semantics of CII	56
2.5.4. The Semantical Adequacy of CII*	58
2.6. Finite Sums and Products: The Calculus CIII	62
2.6.1. The Vocabulary and the Axioms of CIII	63
2.6.2. The Semantics of CIII	64
2.6.3. The Semantical Adequacy of CIII*	65
2.7. Infinite Sums and Products: The Calculus CIIII	67
2.7.1. The Vocabulary and the Axioms of CIIII	68
2.7.2. Some Theorems of CIIII	69
2.7.3. The Semantics of CIIII	70
2.7.4. The Semantical Adequacy of CIIII*	70
2.8. Non-Atomistic Universes of Individuals	73

2.9. The Non-Atomistic Calculus CIIV and some Extensions	77
2.9.1. The Vocabulary and the Axioms of CIIV	78
2.9.2. The Semantics of CIIV	80
2.9.3. The Semantical Adequacy of CIIV*	80
2.9.4. Extensions of CIIV	81
2.10. Sequential Individuals and the Calculus of Individual Relations	81
2.10.1. Order Implied by Different Part-Whole Relations	84
2.10.2. Order Implied by the Existence of Certain Composites	85
2.10.3. Order Implied by Positional Parts	89
2.10.4. Order Implied by Relational Individuals and their Calculus	92
 CHAPTER 3 / ONTOLOGICAL COMMITMENT AND DESIGNATA OF EXPRESSIONS	 102
3.1. Ontological Implications of Theories	102
3.2. One-Place Predicates and their Extensions	122
3.3. Truth Conditions and Relations of Predication	125
3.4. Expressions of Relations and Operations	135
3.5. Denotationless Symbols and Nominalistic Models	142
 CHAPTER 4 / BUNDLES OF QUALITIES, QUALITIES, AND CONCRETA	 148
4.1. Bundles of Qualities and their Calculus CB	148
4.1.1. Background	148
4.1.2. The Vocabulary of CB*	150
4.1.3. The Semantics of CB with Informal Discussion	151
4.1.4. The Axioms of CB	158
4.1.5. The Semantical Adequacy of CB*	160
4.2. Resemblance and its Calculus CR	166
4.2.1. Background	166
4.2.2. The Vocabulary and the Axioms of CR	168
4.2.3. The Semantics of CR	171
4.2.4. The Semantical Adequacy of CR*	172
4.3. Qualities and their Calculus CQ	175
4.3.1. Background	175

4.3.2. The Meta-Theory of CQ	177
4.3.3. The Interpreted System CQ*	181
4.4. Concreta	184
4.5. Further Problems and Conclusion	197
BIBLIOGRAPHY	200
SYMBOLIC NOTATION	204
INDEX OF NAMES	207
INDEX OF SUBJECTS	209