

# CONTENTS

## CHAPTER I

### ELEMENTS OF THE SYSTEM

§ 1. <i>The true form of the Aristotelian syllogism</i>	. . . . .	1
§ 2. <i>Premisses and terms</i>	. . . . .	3
§ 3. <i>Why singular terms were omitted by Aristotle</i>	. . . . .	5
§ 4. <i>Variables</i>	. . . . .	7
§ 5. <i>Syllogistic necessity</i>	. . . . .	10
§ 6. <i>What is formal logic?</i>	. . . . .	12
§ 7. <i>What is formalism?</i>	. . . . .	15

## CHAPTER II

### THESES OF THE SYSTEM

§ 8. <i>Theses and rules of inference</i>	. . . . .	20
§ 9. <i>The syllogistic figures</i>	. . . . .	23
§ 10. <i>The major, middle, and minor terms</i>	. . . . .	28
§ 11. <i>The history of an error</i>	. . . . .	30
§ 12. <i>The order of the premisses</i>	. . . . .	32
§ 13. <i>Errors of some modern commentators</i>	. . . . .	34
§ 14. <i>The four Galenian figures</i>	. . . . .	38

## CHAPTER III

### THE SYSTEM

§ 15. <i>Perfect and imperfect syllogisms</i>	. . . . .	43
§ 16. <i>The logic of terms and the logic of propositions</i>	. . . . .	47
§ 17. <i>The proofs by conversion</i>	. . . . .	51
§ 18. <i>The proofs by reductio ad impossibile</i>	. . . . .	54
§ 19. <i>The proofs by ecthesis</i>	. . . . .	59
§ 20. <i>The rejected forms</i>	. . . . .	67
§ 21. <i>Some unsolved problems</i>	. . . . .	72

## CHAPTER IV

## ARISTOTLE'S SYSTEM IN SYMBOLIC FORM

§ 22.	<i>Explanation of the symbolism</i>	.	.	77
§ 23.	<i>Theory of deduction</i>	.	.	79
§ 24.	<i>Quantifiers</i>	.	.	83
§ 25.	<i>Fundamentals of the syllogistic</i>	.	.	88
§ 26.	<i>Deduction of syllogistic theses</i>	.	.	90
§ 27.	<i>Axioms and rules for rejected expressions</i>	.	.	94
§ 28.	<i>Insufficiency of our axioms and rules</i>	.	.	98

## CHAPTER V

## THE PROBLEM OF DECISION

§ 29.	<i>The number of undecidable expressions</i>	.	.	100
§ 30.	<i>Stupecki's rule of rejection</i>	.	.	103
§ 31.	<i>Deductive equivalence</i>	.	.	106
§ 32.	<i>Reduction to elementary expressions</i>	.	.	111
§ 33.	<i>Elementary expressions of the syllogistic</i>	.	.	120
§ 34.	<i>An arithmetical interpretation of the syllogistic</i>	.	.	126
§ 35.	<i>Conclusion</i>	.	.	130
INDEX	.	.	.	133