

# CONTENTS

<i>Foreword</i> .....	ix
Historical note on works on the history of logic.....	xiii

## Part I

### LOGIC IN NON-EUROPEAN CULTURES

#### Chapter I **The logical structure of primitive mentality**

1.1 Types of mentalities — 1.2 The plurality of intellectual structures — 1.2.1 — The collective representations — 1.2.2 The law of participation — 1.2.3 Conceptual thinking and prelogic thinking — 1.2.4 Thinking in images — 1.2.5 Primitive thought and language — 1.3 Conclusions — 1.3.1 Thinking and immediate reality — 1.3.2 The many-valued logic structure of primitive mentality — Selected bibliography ....	3
--	---

#### Chapter II **Logic in ancient China**

2.1 Chinese philosophy and the obstacles to understanding it — 2.1.1 The concept of philosophy — 2.1.2 Philosophical schools — 2.2 The Mohist dialectics — 2.2.1 The basic ideas of Mohist dialectics — 2.2.2 The definition — 2.2.3 Argument — 2.3 Logicians and sophists of the school of names — 2.3.1 Tang Hsi-tzu — 2.3.2 Yin Wen-tzu — 2.3.3 Hui Shih-tzu — 2.3.4 Kung-sun Lung — 2.3.5 The meaning of this theory — 2.4 The rectification of names — 2.5 The logical mechanism of Chinese thought — 2.5.1 Thinking and language — 2.5.2 The European analytical and the Chinese synthetical spirit — 2.5.2.1 Chinese philosophers and conceptual thinking — 2.5.2.2 Penetrating induction — 2.6 Conclusion — Selected bibliography .....	12
---	----

#### Chapter III **Indian logic**

3.1 Indian philosophy — 3.2 Philosophical doctrines and the place of logic — 3.3 Nyāya and the writings of logic — 3.3.1 The categories of Nyāya-Vaiśeṣika — 3.3.2 The theory of knowledge — 3.4 The modern Nyāya-Vaiśeṣika System —	
--	--

3.4.1 Inference — 3.4.2 Testimony — 3.4.3 The definition — 3.5 Logic in Buddhism	
3.6 Conclusions — Selected bibliography .....	39

## Part II

### LOGIC IN ANCIENT GREECE

#### Chapter IV The beginning of Greek logic

4.1 Pre-Socratic thinking — 4.2 The Ionians — 4.2.1 Thales — 4.2.2 Anaximander — 4.2.3 Anaximenes — 4.2.4 Conclusions — 4.3 Pythagoras and his school — 4.4 The Eleatic school — 4.4.1 Xenophanes of Colophon — 4.4.2 Parmenides — 4.4.3 Zeno — 4.5 Heraclitus — 4.5.1 Heraclitus in Hegel's interpretation — 4.6 Anaxagoras of Clazomenae — 4.7 Empedocles of Acragas — 4.8 Atomism. Leucippus and Democritus — 4.9 Characteristics of pre-Socratic thinking — Selected bibliography .....	69
---	----

#### Chapter V The sophists

5.1 The Sophistic movement — 5.1.1 Protagoras of Abdera — 5.1.2 Gorgias of Leontini — 5.1.3 Other Sophists — 5.1.4 The Sophistic reasoning — 5.2 The Sophists and their importance — Selected bibliography .....	95
--	----

#### Chapter VI Socrates' reaction. Plato

6.1 Socrates — 6.2 Plato — 6.2.1 The analysis of knowledge — 6.2.2 The theory of ideas — 6.2.3 Plato's dialectics — 6.2.3.1 Ascending and descending dialectics — 6.2.3.2 The relation between ideas — 6.2.4 The universal and the categories — 6.2.5 The Platonic origin of syllogism — 6.2.6 The syllogism is a partial division — 6.2.7 The logical principles — 6.2.8 Thinking and language — 6.2.9 Plato's notion of science — 6.3 The Old Academy — 6.4 General considerations upon the logic of ideas — Selected bibliography .....	103
--	-----

#### Chapter VII The lesser Socratics

7.1 Socrates' disciples — 7.2 The Cyrenaic School — 7.3 The Megarian School — 7.3.1 The Megarian arguments and their significance — 7.3.2 Hypothetical reasoning — 7.3.3 The modality of sentences — 7.4 The Erythrean School — 7.5 The Cynic School — 7.6 General conclusions about the Lesser Socratics — Selected bibliography .....	128
---	-----

## Chapter VIII Aristotle's logic

8.1 Aristotle — 8.1.1 Aristotle's writings — 8.1.2 The Organon — 8.1.3 The place of logic among the other sciences — 8.1.4 The object of logic. Form and matter. The Aristotelian eidos — 8.1.5 The intellect and its nature. The Aristotelian noûs — 8.2 Formal logic — 8.2.1 The categories — 8.2.1.1 The definition — 8.2.2 The judgement — <i>Logos apophanticos</i> — 8.2.2.1 Classification of judgements according to quality and quantity — 8.2.2.2 The modality of judgements — 8.2.2.3 The opposition of judgements — 8.2.2.4 The conversion of judgements — 8.2.3 The logical principles — 8.2.4 The syllogistic — 8.2.4.1 The nature of the syllogism — 8.2.4.2 The structure of syllogism — 8.2.4.3 Modal syllogisms — 8.2.4.4. The hypothetical reasoning — 8.2.4.5 Modern interpretations of the Aristotelian syllogistic — 8.3 The theory of science — 8.4 Dialectics — 8.4.1 The induction — 8.4.2 On sophistic refutations — 8.5 Conclusions — 8.5.1 The modalities of essence — 8.5.2 Logic of the universal — 8.5.3 <i>Logica perennis</i> — Selected bibliography .....	141
--	-----

## Chapter IX The Peripatetic school

9.1 Aristotle's successors — 9.2 The conception of logic in the Peripatetic School — 9.2.1 The categorical syllogism — 9.2.2 The modal syllogism — 9.2.3 The hypothetical syllogism — 9.2.4 The syllogism of quality — 9.2.5 The prosleptic syllogism — 9.3 General characterization — Selected bibliography .....	207
--	-----

## Chapter X The logic of the Stoics

10.1 The main features and importance of Stoic logic — 10.1.1 Pragmatism and formalism — 10.1.2 The Stoic School. The followers of the School and their works. Sources — 10.1.3 The importance of logic in Stoic philosophy — 10.2 The nature of logic and its division — 10.2.1 Logic and language — 10.2.2 <i>Significatio</i> — the science of the expressed — 10.2.2.1 <i>Lekton</i> — 10.2.3 The theory of criteria — 10.2.4. The concept — 10.2.5 Theory of categories — 10.2.6 Theory of sentences — 10.2.7 Theory of reasoning — 10.2.8 Sophisms — 10.3 General conclusions on Stoic logic — 10.3.1 Necessary and contingent deduction — Selected bibliography .....	216
--	-----

## Chapter XI The Epicurean School. Scepticism and the New Academy

11.1 Epicurus. The Epicurean School — 11.1.1 Epicurus' philosophical conception — 11.1.2 The canon — 11.2 Scepticism — 11.2.1 Pyrrho. The Sceptic School — 11.2.2 The Sceptic doctrine — 11.2.3 The fight against logic — 11.2.3.1 The definition — 11.2.3.2 The genera and species — 11.2.3.3 The demonstration — 11.3 The New Academy — 11.3.1 Arcesilaus — 11.3.2 Carneades — Selected bibliography .....	254
--	-----

## Part III

## RHETORS AND COMMENTATORS

## Chapter XII Logic and rhetoric in Rome

12.1 Rhetoric — 12.1.1 Marcus Tullius Cicero — 12.1.2 Lucius Annaeus Seneca — 12.1.3 Marcus Fabius Quintilianus 12.1.4 Aulus Gellius — 12.1.5 Latin logic and the sophisms — Selected bibliography .....	273
--	-----

## Chapter XIII Commentaries and commentators

13.1 Ancient Scholasticism — 13.2 The commentators — 13.2.1 Apuleius — 13.2.2 Galen — 13.2.3 Pseudo-Galen — 13.2.4 Alcinous — 13.2.5 Alexander of Aphrodisias — 13.2.6. Porphyry — 13.2.7 Other commentators — 13.2.8 Marius Victorinus — 13.2.9 Augustine — 13.2.10 Martianus Capella — 13.2.11 Boethius — 13.2.11.1 The categories — 13.2.11.2 The propositions — 13.2.11.3 The categorical syllogism — 13.2.11.4 The hypothetical reasoning — 13.2.12 Cassiodorus — 13.3 Conclusions — Selected bibliography .....	284
<b>Index of names</b> .....	323
<b>Index of subjects</b> .....	335