

CONTENTS

CHAPTER I

THE NATURE OF LOGIC	PAGE I
§ 1. The Definition of Logic. § 2. Form and Matter of Thought. § 3. The Difficulties of Formal Logic. § 4. The Failure of Formal Logic. § 5. A Logic to discriminate between True and False wanted. § 6. The Self-contradiction of Formal Logic.	

CHAPTER II

TERMS	12
§ 1. Terms as Abstractions from Judgments. § 2. Terms as Convenient Fictions. § 3. Terms as Dictionary-Meanings. § 4. The Verbalty of Terms. § 5. Subject and Predicate. § 6. Abstract and Concrete Terms. § 7. Common, Singular, and Collective Terms. § 8. Ambiguity and Equivocation of Terms. § 9. Relative and Absolute Terms. § 10. Positive, Negative, and Privative Terms. § 11. The Relativity of Formal Classifications.	

CHAPTER III

THE EXTENSION AND INTENSION OF TERMS	32
§ 1. The Fourfold Analysis of Propositions. § 2. The Inverse Variation of Extension and Intension. § 3. Comprehension, Subjective Intension, and Connotation. § 4. The Meaning of Proper Names.	

CHAPTER IV

THE CATEGORIES	39
§ 1. Aristotle's List. § 2. A general Objection to the Notion of Categories. § 3. Special Objections to Aristotle's List.	

CHAPTER V

	PAGE
THE PREDICABLES	45

§ 1. Their Meaning. § 2. Their Metaphysical Basis. § 3. The Five Questions about a 'Kind.' § 4. The Difficulty about the Individual. § 5. The Difficulties about Accident. § 6. The Meaninglessness of the Inapplicable. § 7. The Logical and Metaphysical Aspects of the Theory of Predicables. § 8. Darwin *v.* Formal Logic. § 9. Is Mathematical Truth of a different nature? § 10. Are the Predicables applicable or not?

CHAPTER VI

DEFINITION AND DIVISION	62
-----------------------------------	----

§ 1. The Function of Definition and Division. § 2. The Traditional Doctrine. § 3. The Limits of Definition. § 4. Criticism of the Traditional Doctrine. § 5. The Real Nature of Definition. § 6. Division. § 7. The Difficulties of Division. § 8. Classification *v.* Division. § 9. Dichotomy. § 10. Conclusions.

CHAPTER VII

THE THEORY OF IDEAS	79
-------------------------------	----

§ 1. Ideas, Universals, and Concepts. § 2. Plato's Theory of 'Ideas.' § 3. The Difficulties of the Ideal Theory. § 4. Aristotle *v.* Plato. § 5. Realism. § 6. Nominalism. § 7. Conceptualism. § 8. The Errors of Realism, Nominalism, and Conceptualism. § 9. What, then, are 'Concepts'?

CHAPTER VIII

THE FORMAL THEORIES OF JUDGMENT	92
---	----

§ 1. The Formal Aspects of Judgment. § 2. Judgment as a Compound. § 3. Judgment as Truth-Claim. § 4. Judgment as True-or-False. § 5. Judgment as Reference to Reality.

CHAPTER IX

THE IMPORT OF PROPOSITIONS	103
--------------------------------------	-----

§ 1. The Proposition as Verbal. § 2. The Formal Analysis of the Proposition. § 3. The Interpretation of Propositions. § 4. Universes of Diction.

CONTENTS

xv

CHAPTER X

	PAGE
THE LAWS OF THOUGHT	110

§ 1. The Statement of the Laws. § 2. In what sense are they 'Laws'? § 3. Aristotle's Account of these Principles. § 4. Are they Principles of Thought or of Things? § 5. The Meaning of Identity. § 6. The Principle of Contradiction. § 7. The Principle of Excluded Middle. § 8. The Principles of Thought as Postulates. § 9. The Purposiveness of Thought. § 10. Identity as a Postulate. § 11. The Principle of Contradiction as a Postulate. § 12. Excluded Middle as a Postulate. § 13. Conclusion.

CHAPTER XI

THE FORMS OF JUDGMENT	134
---------------------------------	-----

§ 1. The Classifications of Judgments. § 2. Are they Forms of Judgments or of Propositions? § 3. The Forms of Quantity. § 4. The Forms of Affirmation and Negation. § 5. The 'Subjectivity' of Negation. § 6. The Forms of Relation. § 7. Are the Forms of Relation Exclusive? § 8. The 'Subjectivity' of Hypotheticals and Disjunctives. § 9. The Ambiguities of Modality. § 10. The Subjectivity of Modality. § 11. Synthetic and Analytic Judgments.

CHAPTER XII

THE DISTRIBUTION OF TERMS AND OPPOSITION OF PROPOSITIONS	152
--	-----

§ 1. The Propositions A, E, I, and O. § 2. The Distribution of Terms. § 3. The 'Ambiguity' of the Forms. § 4. The Quantification of the Predicate. § 5. The Opposition of Propositions.

CHAPTER XIII

CONVERSION AND OTHER FORMS OF IMMEDIATE INFERENCE	160
---	-----

§ 1. Immediate Inference. § 2. Conversion. § 3. Permutation, Conversion by Negation, and Contraposition. § 4. Criticism.

CHAPTER XIV

THE GENERAL NATURE OF INFERENCE	PAGE 165
---	-------------

§ 1. The Problem of Inference. § 2. The Notion of 'Valid Inference.' § 3. The 'Necessity' of Inference. § 4. The 'Novelty' in Inference. § 5. Is 'Valid Inference' unmeaning? § 6. Conclusion.

CHAPTER XV

THE SYLLOGISM	179
-------------------------	-----

§ 1. The Structure of the Syllogism. § 2. The Rules of the Syllogism. § 3. The Valid Moods. § 4. Reduction. § 5. Criticism.

CHAPTER XVI

THE THEORY OF THE SYLLOGISM	187
---------------------------------------	-----

§ 1. The Syllogism as a Discovery. § 2. The Origins of the Syllogism. § 3. Aristotle's Account of the Syllogism. § 4. The Postulation of True Premisses. § 5. The Intrinsic Necessity of the Syllogism. § 6. The Formal Ambiguity of the Middle Term. § 7. The Function of the 'Ambiguity.' § 8. The Claim to Novelty. § 9. Is the Syllogism a *Petitio Principii*? § 10. The Real Meaning of Novelty. § 11. Non-syllogistic Forms. § 12. The Argument from Particulars. § 13. The Syllogistic *Dicta*. § 14. Conclusion.

CHAPTER XVII

HYPOTHETICAL AND DISJUNCTIVE FORMS	223
--	-----

§ 1. The Relation of Conditional Reasoning to Syllogism. § 2. Hypothetical Syllogisms. § 3. Disjunctive Syllogisms. § 4. The Dilemma. § 5. Criticism.

CHAPTER XVIII

THE PROBLEM OF INDUCTION	231
------------------------------------	-----

§ 1. The Origins of the Problem of Induction. § 2. Does Syllogistic Proof involve an Infinite Regress? § 3. Intuition as the Foundation of Induction. § 4. Generalization as the Basis of Induction. § 5. Postulation as the Source of Universal Propositions. § 6. How is it possible to reason from Facts? § 7. How to reason from Facts.

CHAPTER XIX

	PAGE
THE FORMS OF INDUCTION	251
<p>§ 1. The Mistaken Aims of Inductive Logicians. § 2. Aristotle's Accounts of Induction. § 3. Bacon's Theory of Induction. § 4. Mill's Notion of Induction. § 5. Mill's Experimental Methods. § 6. Criticism of Mill's Methods. § 7. How to give a Meaning to Mill's Methods.</p>	

CHAPTER XX

CAUSATION	272
<p>§ 1. The Problem of Causation. § 2. Philosophic Criticisms of the Common-sense Notion of Cause. § 3. The True Interpretation of the Common-sense Notion of Cause. § 4. The Derivation of Causation: (1) from Experience. § 5. (2) Is Causation a 'Necessity of Thought'? § 6. (3) Causation derived from Postulation. § 7. Formulas of Causation. § 8. The Uniformity of Causation. § 9. The Reciprocity of Cause and Effect.</p>	

CHAPTER XXI

LAWS OF NATURE	310
<p>§ 1. The Practical Value of the 'Law of Causation.' § 2. Laws of Nature. § 3. 'Laws' and their Makers. § 4. The Interdependence of 'Law' and 'Fact.' § 5. The 'Law' and the 'Case.' § 6. The Mutability of Laws. § 7. The 'Eternity' of Laws. § 8. Transition to the 'Objective' Law. § 9. Why do 'Laws' work? § 10. Can the Habits of Things change? § 11. 'Inductive' and 'Deductive' Reasoning.</p>	

CHAPTER XXII

ACCESSORIES OF INDUCTION	337
<p>§ 1. The Artificiality of Formal Distinctions. § 2. Observation and Experiment. § 3. Hypothesis. § 4. Analogy. § 5. Explanation. § 6. Verification.</p>	

CHAPTER XXIII

FALLACIES	349
<p>§ 1. The Notion of Formal Fallacy. § 2. Its Futility. § 3. The Formal Fallacies. § 4. The 'Material' Fallacies. § 5. The 'Semi-logical' Fallacies. § 6. Miscellaneous Fallacies.</p>	

CHAPTER XXIV

	PAGE
THE OUTCOME OF FORMAL LOGIC	374

§ 1. The Notion of Formal Logic. § 2. Is Formal Logic consistent? § 3. Can Formal Logic cover the Traditional Logic? § 4. Can Formal Logic deal with Actual Thinking? § 5. Is Formal Logic meaningless? § 6. The Law of Significant Assertion. § 7. The Defence of Formal Logic. § 8. Formal Logic as Mental Training. § 9. Formal Logic as a Game. § 10. Concessions to *Psychologic*.

CHAPTER XXV

THE SOCIAL EFFECTS OF FORMAL LOGIC	394
--	-----

§ 1. The Social Importance of Formal Logic. § 2. Its Educational Effects. § 3. Its False Ideals. § 4. Their Effects on Science. § 5. Their Effects on Religion. § 6. Their Effects on Mankind. § 7. Conclusion.

INDEX	411
-----------------	-----