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Truth-Functional Propositional Logic

1. INTRODUCTION

In this chapter, and the remaining chapter 6, we turn from the vista of logic as a whole and concentrate solely on the Logic of Unanalyzed Propositions. Even then, our focus is a limited one. We say nothing more about the method of inference and concern ourselves mainly with how the method of analysis can lead to knowledge of logical truth.

The present chapter takes a closer look at the truth-functional fragment of propositional logic. We try to show: (1) how the truth-functional concepts of negation, conjunction, disjunction, material conditionality, and material biconditionality may be expressed in English as well as in symbols; (2) how these concepts may be explicated in terms of the possible worlds in which they have application; and (3) how the modal attributes of propositions expressed by compound truth-functional sentences may be ascertained by considering worlds-diagrams, truth-tables, and other related methods. In effect, we try to make good our claim that modal concepts are indispensable for an understanding of logic as a whole, including those truth-functional parts within which they seemingly do not feature.

2. TRUTH-FUNCTIONAL OPERATORS

The expressions "not", "and", "or", "if . . . then . . . ", and "if and only if" may be said to be *sentential operators* just insofar as each may be used in ordinary language and logic alike to 'operate' on a sentence or sentences in such a way as to form *compound* sentences.

The sentences on which such operators operate are called the *arguments* of those operators. When such an operator operates on a *single* argument (i.e., when it operates on a single sentence, whether simple or compound), to form a more complex one, we shall say that it is a *monadic operator*. Thus the expressions "not" and "it is not the case that" are monadic operators insofar as we may take a simple sentence like

(5.1) "Jack will go up the hill"

and form from it the compound sentence

(5.2) "Jack will not go up the hill"

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