

---

# Contents

<i>Preface</i>	page vii
1 Some aspects of truth-functional logic	1
1 <i>An axiomatization of the relation of tautological implication</i>	1
2 <i>Some tools for investigating systems of logic</i>	9
3 <i>Soundness and completeness</i>	16
2 Some modified implication relations	25
1 <i>The problem of entailment</i>	25
2 <i>Subtending and tautological implication</i>	27
3 <i>De Morgan implication</i>	30
3 Some aspects of quantificational logic	43
1 <i>An axiomatization of the relation of truistic implication</i>	43
2 <i>Some implications of the Löwenheim-Skolem theorem</i>	54
3 <i>The expressive capacities of quantificational logic</i>	60
4 Remarks on the intuitionistic approach to logic	67
1 <i>Some patterns in intuitionistic logic</i>	67
2 <i>Philosophical ideas underlying intuitionistic logic</i>	71
3 <i>The intuitionistic account of the logical operators</i>	73
5 From logic to set theory	79
1 <i>A sketch of Zermelo's axiomatization of set theory</i>	79
2 <i>Interconnections between logic and set theory</i>	84
3 <i>The nature of set theory</i>	86
<i>Answers to selected exercises</i>	91
<i>Guide to further reading</i>	99
<i>Index</i>	105