

---

# Contents

Chapter I	<b>Arguments</b>	1
I	Reasoning	1
II	Arguments	2
III	Sentences	5
IV	Arguments (again)	7
V	Valid arguments and Sound Arguments	16
VI	Artificial Languages	18
VII	Summary	18
Chapter II	<b>Formal Logic</b>	21
I	Syntax	21
II	Object Language and Metalanguage	25
III	Use and Mention	28
IV	The Sentential Calculus (SC): Syntax	31
V	The Sentential Calculus (SC): Semantics	38
Chapter III	<b>Translating the Natural Language into the SC</b>	59
I	Introduction	59
II	Translation	61
III	Translating English into the SC	62
IV	Concluding Remarks	87
Chapter IV	<b>Analysis of Arguments</b>	89
I	Introduction	89
II	Analysis of Arguments	92

Chapter V	<b>Syntax of L*</b>	127
	I Introduction	127
	II Syntax of L*	128
Chapter VI	<b>Semantics of L*</b>	147
	I Introduction	147
	II Sets and Relations	147
	III Interpretations	158
	IV Truth	171
	V Logical Consequence	195
Chapter VII	<b>Translating English Sentences into Sentences of L*</b>	207
	I Introduction and Review	207
	II English Predicates	210
	III Translating English Sentences into L*	216
Chapter VIII	<b>Evaluation of English Arguments</b>	231
Chapter IX	<b>Natural Deduction</b>	263
	I Introduction	263
	II Derivations	264
	III Rules of Derivation	264
Chapter X	<b>The Grand Finale</b>	301
	I Proof Theory, Model Theory and Strategies	301
	II Bringing it All Together	313
	<b>Answers to Selected Exercises</b>	337
	<b>Index</b>	387